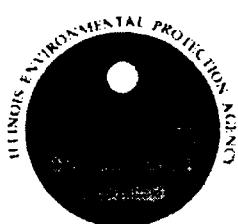


LPC# 085 813 5001 Jo Daviess County  
Bautsch-Gray Mine  
ILN 000 508 088  
SF/HRS  
volume 2

# CERCLA Expanded Site Inspection Analytical Data



Prepared by:  
Office of Site Evaluation  
Division of Remediation Management  
Bureau of Land

US EPA RECORDS CENTER REGION 5



427686

**ESAT Controlled Number:** ESAT5.17.01061-py 3/12/10

DATE: March 12, 2010

IEPA

**Attn: Mr. Mark Wagner**  
1001 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

SITE NAME: **Bautsch-Grey Mine (IL)**

| <b>Case</b> | <b>Lab</b> | <b>Samples</b> | <b>SDG</b> | <b>Matrix</b> |
|-------------|------------|----------------|------------|---------------|
| 39260       | Bonner     | 20             | ME0002     | soil          |

**Analysis:** metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

**Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.**

Data Received by: \_\_\_\_\_ Date: \_\_\_\_\_

**PROBLEMS:**

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

---

---

Received by Data Management Coordinator, CRL for file.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FROM: **U.S. EPA - Region 5**  
Sylvia Griffin  
Central Regional Laboratory  
536 S. Clark, 10th Floor  
Chicago, IL 60605

Sent By: Pat Joyner  
Data Coordinator

**RECEIVED**  
MAR 15 2010  
**IEPA/BOL**

# Controlled Document

# ESAT5.15.00431

ACK

3-11-10

## Regional Transmittal Form

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE: 3/2/10

SUBJECT: Review of Data  
Received for review on 12/11/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)  
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Bautsch-Grey Mine (IL)

CASE NUMBER: 39260 SDG NUMBER: ME0002

Number and Type of Samples: 20 soils

Sample Numbers: ME0002-21

Laboratory: Bonner Hrs. for Review: (2.5 + 2.0) 2/11/10

Following are our findings:

CC: Howard Pham  
Region 5 TOPO  
Mail Code: SRT-5J

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Twenty (20) soil samples, numbered ME0002-21, were collected on November 16-18, 2009. The lab received the samples on November 20, 2009. Although the cooler containing samples ME0002-06 was outside the required temperature range, no sample results are qualified for this deficiency. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

No Chain of Custody seal numbers are recorded on Form DC-1 for either cooler. The Inorganic Traffic Report & Chain of Custody Record lists the same 2 seal numbers for both coolers. One seal is included with the airbill for samples ME0002-06. There is a notation with the other airbill indicating no custody seal was present; however, the Sample Receipt Form for that cooler (Case page number 225) indicates there was a seal present. No sample results are qualified for this inconsistent information.

The laboratory performed matrix spikes for aluminum and iron (not required by ILM05.4). The results were evaluated according to spike concentrations reported by the laboratory. The laboratory reported recoveries for the CRQL Check Standard for aluminum, calcium, iron, magnesium, potassium and sodium (not required by ILM05.4). No data are qualified for values outside the standard acceptance range for this standard.

It appears that the serial dilution may have been performed using a 4X dilution instead of the required 5X. 13 elements (all elements where the undiluted sample is greater than 50X the MDL) failed the serial dilution. If the dilution is recalculated using a 4X dilution factor instead of 5X, none of the elements fail serial dilution limits. Additionally, several of the samples which were run at dilutions appear to have been run at different dilutions than those which were reported. ME0003 is reported at 4X; the % differences match closer if 3X is used as the dilution factor. ME0006 is reported at 5X; 4X matches better. Results are reported as per laboratory dilution factors without further qualification.

No handwritten preparation logs were included. It is unclear whether the actual weight used for preparation of the samples was correct as listed. Two out of the twenty values reported by the laboratory were rounded up when they should not have been. The reported results were corrected on samples ME0015 and ME0020 by this reviewer.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 125 ug/L. The correct value should be reported as 50 ug/L.

## 1. HOLDING TIME:

The following inorganic samples did not meet primary holding time criteria.

Hits are qualified "J-" and non-detects are qualified "UJ".

### Cyanide

ME0002, ME0003, ME0004, ME0005, ME0006, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

## 2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

## 3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.  
Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

### Barium

ME0002, ME0003, ME0004, ME0005, ME0006, ME0013, ME0019

### Beryllium

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0009, ME0010, ME0011, ME0012

### Cadmium

ME0009, ME0019

### Cobalt

ME0002, ME0003, ME0010, ME0011, ME0012, ME0013, ME0014, ME0016, ME0017, ME0019, ME0020, ME0021

### Selenium

ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0011, ME0014, ME0016, ME0018, ME0019, ME0020, ME0021

### Sodium

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL) and with a negative

ICB/CCB or preparation blank whose absolute value is greater than the MDL. The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Thallium

ME0002, ME0006

**4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:**

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The required post spike was performed and results were greater than 125%.

Hits are qualified "J+", non-detects are not qualified.

Zinc

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Cyanide

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

No defects were found for the laboratory control sample.

**5. LABORATORY AND FIELD DUPLICATE:**

No defects were found for the laboratory duplicate samples.

ME0008 and ME0009 may be field duplicates. The following inorganic analytes are associated with field duplicate results which did not meet technical data validation criteria; however, no sample results are qualified for field duplicates.

Cadmium, Manganese, Zinc

## 6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

### Aluminum

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Barium

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Calcium

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Cobalt

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Copper

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Iron

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

### Lead

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

**Magnesium**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

**Manganese**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

**Nickel**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

**Potassium**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

**Vanadium**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

**Zinc**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018, ME0019, ME0020, ME0021

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+", non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

**Beryllium**

ME0013, ME0018

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

**Antimony**

ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018

Cadmium  
ME0009

Copper  
ME0003, ME0007, ME0008, ME0009, ME0010, ME0011, ME0012, ME0013,  
ME0014, ME0016, ME0017

Thallium  
ME0002, ME0003, ME0004, ME0005, ME0006, ME0007, ME0008, ME0009,  
ME0010, ME0011, ME0012, ME0013, ME0014, ME0015, ME0016, ME0017,  
ME0018

## 7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Beryllium  
ME0013, ME0018

Chromium  
ME0002

Copper  
ME0010, ME0012, ME0013

Mercury  
ME0003, ME0004, ME0006, ME0007, ME0008, ME0009, ME0012, ME0013,  
ME0014, ME0015, ME0016, ME0019, ME0020

Potassium  
ME0002, ME0003, ME0004, ME0010, ME0011, ME0012, ME0013, ME0014,  
ME0015, ME0016, ME0017, ME0018, ME0019, ME0020, ME0021

Silver  
ME0007, ME0008, ME0010, ME0012, ME0014, ME0015, ME0017

Vanadium  
ME0002, ME0003, ME0004, ME0005, ME0006, ME0012, ME0013

All data, except those qualified above, are acceptable.

**CADRE ILM05.4 Data Qualifier Sheet**

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u>   |
|-------------------|---|
| U                 | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J                 | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  |
| J+                | The result is an estimated quantity, but the result may be biased high.   |
| J-                | The result is an estimated quantity, but the result may be biased low.  |
| R                 | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample. |
| UJ                | The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.  |

## Analytical Results (Qualified Data)

Page 1 of 4

Case #: 39260

SDG : ME0002

Site :

BAUTSCH-GREY MINE

Number of Soil Samples : 20

Lab. :

BONNER

Number of Water Samples : 0

Reviewer :

S. CONNET

Date :

3/2/2010

| Sample Number :     | ME0002     | ME0003     | ME0004     | ME0005     | ME0006     |      |        |      |        |      |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|--------|------|
| Sampling Location : | X302       | X303       | X304       | X305       | X301       |      |        |      |        |      |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |        |      |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |      |
| Date Sampled :      | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 |      |        |      |        |      |
| Time Sampled :      |            |            |            |            |            |      |        |      |        |      |
| %Solids :           | 93.3       | 91.8       | 81.8       | 79.8       | 74.1       |      |        |      |        |      |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |        |      |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 122        | J          | 335        | J          | 1020       | J    | 1520   | J    | 3260   | J    |
| ANTIMONY            | 6.4        | UJ         | 6.5        | UJ         | 7.3        | UJ   | 7.5    | UJ   | 8.1    | UJ   |
| ARSENIC             | 15.3       |            | 30.2       |            | 14.4       |      | 68.0   |      | 26.1   |      |
| BARIUM              | 21.4       | UJ         | 21.8       | UJ         | 24.4       | UJ   | 25.1   | UJ   | 27.0   | UJ   |
| BERYLLIUM           | 0.54       | U          | 0.54       | U          | 0.61       | U    | 0.63   | U    | 0.67   | U    |
| CADMIUM             | 39.0       |            | 19.0       |            | 19.8       |      | 37.8   |      | 33.0   |      |
| CALCIUM             | 165000     | J          | 199000     | J          | 141000     | J    | 85600  | J    | 106000 | J    |
| CHROMIUM            | 0.77       | J          | 1.3        |            | 2.5        |      | 2.5    |      | 6.7    |      |
| COBALT              | 5.4        | UJ         | 5.4        | UJ         | 9.3        | J    | 26.2   | J    | 17.3   | J    |
| COPPER              | 66.2       | J          | 5.8        | J-         | 36.2       | J    | 44.1   | J    | 265    | J    |
| IRON                | 26100      | J          | 28100      | J          | 43900      | J    | 79000  | J    | 29300  | J    |
| LEAD                | 3610       | J          | 3120       | J          | 8970       | J    | 15500  | J    | 1460   | J    |
| MAGNESIUM           | 90200      | J          | 77400      | J          | 60600      | J    | 37700  | J    | 36500  | J    |
| MANGANESE           | 1120       | J          | 1160       | J          | 904        | J    | 913    | J    | 826    | J    |
| MERCURY             | 0.11       | U          | 0.052      | J          | 0.088      | J    | 0.13   |      | 0.10   | J    |
| NICKEL              | 6.2        | J          | 12.6       | J          | 24.2       | J    | 59.7   | J    | 33.5   | J    |
| POTASSIUM           | 82.5       | J          | 228        | J          | 606        | J    | 1000   | J    | 1910   | J    |
| SELENIUM            | 3.8        | U          | 3.8        | U          | 4.3        | U    | 4.4    | U    | 4.7    | U    |
| SILVER              | 2.8        |            | 2.1        |            | 2.4        |      | 3.8    |      | 2.5    |      |
| SODIUM              | 536        | U          | 545        | U          | 611        | U    | 627    | U    | 675    | U    |
| THALLIUM            | 2.7        | UJ         | 2.7        | UJ         | 3.1        | UJ   | 3.1    | UJ   | 3.4    | UJ   |
| VANADIUM            | 0.75       | J          | 1.7        | J          | 2.4        | J    | 2.7    | J    | 4.7    | J    |
| ZINC                | 15400      | J+         | 7880       | J+         | 8800       | J+   | 19000  | J+   | 16100  | J+   |
| CYANIDE             | 2.7        | UJ         | 2.7        | UJ         | 3.1        | UJ   | 3.1    | UJ   | 3.4    | UJ   |

## Analytical Results (Qualified Data)

Page 2 of 4

Case #: 39260 SDG : ME0002  
 Site : BAUTSCH-GREY MINE  
 Lab. : BONNER  
 Reviewer : S. CONNET  
 Date : 3/2/2010.

| Sample Number :     | ME0007     | ME0008     | ME0009     | ME0010     | ME0011     |      |        |      |        |      |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|--------|------|
| Sampling Location : | X200       | X201A      | X201B      | X202       | X203       |      |        |      |        |      |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |        |      |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |      |
| Date Sampled :      | 11/18/2009 | 11/18/2009 | 11/18/2009 | 11/18/2009 | 11/16/2009 |      |        |      |        |      |
| Time Sampled :      |            |            |            |            |            |      |        |      |        |      |
| %Solids :           | 52.8       | 70.5       | 68.9       | 36.6       | 75.6       |      |        |      |        |      |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |        |      |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 6260       | J          | 7770       | J          | 7680       | J    | 6030   | J    | 5760   | J    |
| ANTIMONY            | 11.4       | UJ         | 8.5        | UJ         | 8.7        | UJ   | 16.4   | UJ   | 7.9    | UJ   |
| ARSENIC             | 20.8       |            | 5.1        |            | 6.0        |      | 24.8   |      | 9.8    |      |
| BARIUM              | 112        | J          | 86.1       | J          | 88.3       | J    | 91.0   | J    | 102    | J    |
| BERYLLIUM           | 0.95       | U          | 0.71       | U          | 0.73       | U    | 1.4    | U    | 0.66   | U    |
| CADMIUM             | 5.8        |            | 6.9        |            | 0.73       | UJ   | 16.7   |      | 12.6   |      |
| CALCIUM             | 124000     | J          | 57000      | J          | 54400      | J    | 286000 | J    | 34900  | J    |
| CHROMIUM            | 14.7       |            | 14.8       |            | 14.7       |      | 12.1   |      | 9.8    |      |
| COBALT              | 13.1       | J          | 7.1        | J          | 8.7        | J    | 13.7   | UJ   | 6.6    | UJ   |
| COPPER              | 9.5        | J-         | 13.8       | J-         | 11.3       | J-   | 6.1    | J-   | 5.9    | J-   |
| IRON                | 36800      | J          | 12800      | J          | 14500      | J    | 46300  | J    | 20500  | J    |
| LEAD                | 113        | J          | 13.6       | J          | 14.1       | J    | 213    | J    | 34.0   | J    |
| MAGNESIUM           | 47300      | J          | 25200      | J          | 24600      | J    | 106000 | J    | 17900  | J    |
| MANGANESE           | 1680       | J          | 431        | J          | 643        | J    | 2870   | J    | 875    | J    |
| MERCURY             | 0.10       | J          | 0.047      | J          | 0.039      | J    | 0.27   | U    | 0.13   | U    |
| NICKEL              | 21.7       | J          | 16.4       | J          | 18.8       | J    | 20.1   | J    | 10.2   | J    |
| POTASSIUM           | 1090       | J          | 1140       | J          | 1210       | J    | 958    | J    | 563    | J    |
| SELENIUM            | 6.6        | U          | 5.0        | U          | 5.1        | U    | 9.6    | U    | 4.6    | U    |
| SILVER              | 1.2        | J          | 0.68       | J          | 1.5        | U    | 1.7    | J    | 1.3    |      |
| SODIUM              | 947        | U          | 709        | U          | 726        | U    | 1370   | U    | 661    | U    |
| THALLIUM            | 4.7        | UJ         | 3.5        | UJ         | 3.6        | UJ   | 6.8    | UJ   | 3.3    | UJ   |
| VANADIUM            | 24.2       | J          | 23.1       | J          | 23.0       | J    | 21.4   | J    | 13.4   | J    |
| ZINC                | 1570       | J+         | 3760       | J+         | 151        | J+   | 6490   | J+   | 4680   | J+   |
| CYANIDE             | 4.7        | UJ         | 3.5        | UJ         | 3.6        | UJ   | 6.8    | UJ   | 3.3    | UJ   |

## Analytical Results (Qualified Data)

Page 3 of 4

Case #: 39260

SDG : ME0002

Site :

BAUTSCH-GREY MINE

Lab. :

BONNER

Reviewer :

S. CONNET

Date :

3/2/2010

| Sample Number :     | ME0012     | ME0013     | ME0014     | ME0015     | ME0016     |      |        |      |        |      |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|--------|------|
| Sampling Location : | X204       | X205       | X206       | X207       | X208       |      |        |      |        |      |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |        |      |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |      |
| Date Sampled :      | 11/16/2009 | 11/16/2009 | 11/16/2009 | 11/16/2009 | 11/16/2009 |      |        |      |        |      |
| Time Sampled :      |            |            |            |            |            |      |        |      |        |      |
| %Solids :           | 78.7       | 91.6       | 66.3       | 73.4       | 66.0       |      |        |      |        |      |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |        |      |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 1450       | J          | 838        | J          | 4740       | J    | 4070   | J    | 4810   | J    |
| ANTIMONY            | 7.8        | UJ         | 6.6        | UJ         | 9.0        | UJ   | 8.2    | UJ   | 9.1    | UJ   |
| ARSENIC             | 11.1       |            | 11.1       |            | 11.9       |      | 20.5   |      | 5.1    |      |
| BARIUM              | 27.8       | J          | 21.8       | UJ         | 85.5       | J    | 82.7   | J    | 89.7   | J    |
| BERYLLIUM           | 0.64       | U          | 0.069      | J+         | 0.75       | U    | 0.68   | U    | 0.76   | U    |
| CADMIUM             | 11.9       |            | 10.8       |            | 12.5       |      | 10.6   |      | 3.5    |      |
| CALCIUM             | 180000     | J          | 136000     | J          | 85100      | J    | 61600  | J    | 46100  | J    |
| CHROMIUM            | 3.4        |            | 2.4        |            | 8.4        |      | 6.4    |      | 8.1    |      |
| COBALT              | 6.4        | UJ         | 5.5        | UJ         | 7.5        | UJ   | 7.3    | J    | 7.6    | UJ   |
| COPPER              | 1.9        | J-         | 1.1        | J-         | 7.0        | J-   | 31.0   | J    | 6.8    | J-   |
| IRON                | 22100      | J          | 16900      | J          | 23200      | J    | 26600  | J    | 12800  | J    |
| LEAD                | 101        | J          | 95.1       | J          | 986        | J    | 533    | J    | 127    | J    |
| MAGNESIUM           | 63400      | J          | 59200      | J          | 34400      | J    | 29500  | J    | 22000  | J    |
| MANGANESE           | 2280       | J          | 1740       | J          | 1310       | J    | 1040   | J    | 921    | J    |
| MERCURY             | 0.045      | J          | 0.057      | J          | 0.10       | J    | 0.076  | J    | 0.059  | J    |
| NICKEL              | 6.1        | J          | 5.1        | J          | 15.0       | J    | 14.1   | J    | 10.5   | J    |
| POTASSIUM           | 282        | J          | 186        | J          | 646        | J    | 576    | J    | 602    | J    |
| SELENIUM            | 4.4        | U          | 3.8        | U          | 5.3        | U    | 4.8    | U    | 5.3    | U    |
| SILVER              | 1.1        | J          | 1.1        |            | 1.1        | J    | 1.3    | J    | 1.5    | U    |
| SODIUM              | 635        | U          | 546        | U          | 754        | U    | 681    | U    | 758    | U    |
| THALLIUM            | 3.2        | UJ         | 2.7        | UJ         | 3.8        | UJ   | 3.4    | UJ   | 3.8    | UJ   |
| VANADIUM            | 5.7        | J          | 3.9        | J          | 14.2       | J    | 10.9   | J    | 13.6   | J    |
| ZINC                | 4650       | J+         | 4270       | J+         | 5070       | J+   | 4310   | J+   | 1530   | J+   |
| CYANIDE             | 3.2        | UJ         | 2.7        | UJ         | 3.8        | UJ   | 3.4    | UJ   | 3.8    | UJ   |

## Analytical Results (Qualified Data)

Page 4 of 4

Case #: 39260

SDG : ME0002

Site :

BAUTSCH-GREY MINE

Lab. :

BONNER

Reviewer :

S. CONNET

Date :

3/2/2010

| Sample Number :     | ME0017     | ME0018     | ME0019     | ME0020     | ME0021     |      |        |      |       |    |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|-------|----|
| Sampling Location : | X209       | X210       | X211       | X212       | X213       |      |        |      |       |    |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |       |    |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |       |    |
| Date Sampled :      | 11/16/2009 | 11/16/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 |      |        |      |       |    |
| Time Sampled :      |            |            |            |            |            |      |        |      |       |    |
| %Solids :           | 87.1       | 70.2       | 31.5       | 55.9       | 71.9       |      |        |      |       |    |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |       |    |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag |       |    |
| ALUMINUM            | 3820       | J          | 3060       | J          | 7030       | J    | 5380   | J    | 5340  | J  |
| ANTIMONY            | 6.9        | UJ         | 8.5        | UJ         | 19.0       | UJ   | 10.7   | UJ   | 8.3   | UJ |
| ARSENIC             | 6.5        |            | 33.9       |            | 6.4        |      | 2.9    |      | 5.3   |    |
| BARIUM              | 59.3       | J          | 86.7       | J          | 63.5       | UJ   | 78.8   | J    | 88.7  | J  |
| BERYLLIUM           | 0.57       | U          | 0.10       | J+         | 1.6        | U    | 0.89   | U    | 0.70  | U  |
| CADMIUM             | 5.9        |            | 24.9       |            | 1.6        | U    | 3.0    |      | 0.93  |    |
| CALCIUM             | 39700      | J          | 121000     | J          | 12300      | J    | 16800  | J    | 19600 | J  |
| CHROMIUM            | 6.6        |            | 6.2        |            | 10.3       |      | 8.4    |      | 8.3   |    |
| COBALT              | 5.7        | UJ         | 11.6       | J          | 15.9       | UJ   | 8.9    | UJ   | 7.0   | UJ |
| COPPER              | 7.4        | J-         | 380        | J          | 13.6       | J    | 9.2    | J    | 7.0   | J  |
| IRON                | 13200      | J          | 52800      | J          | 17700      | J    | 9080   | J    | 12800 | J  |
| LEAD                | 357        | J          | 2070       | J          | 61.6       | J    | 36.1   | J    | 67.3  | J  |
| MAGNESIUM           | 20800      | J          | 44000      | J          | 5390       | J    | 8550   | J    | 10700 | J  |
| MANGANESE           | 713        | J          | 1360       | J          | 169        | J    | 593    | J    | 556   | J  |
| MERCURY             | 0.11       | U          | 0.26       |            | 0.13       | J    | 0.058  | J    | 0.14  | U  |
| NICKEL              | 12.2       | J          | 30.9       | J          | 22.0       | J    | 11.1   | J    | 12.1  | J  |
| POTASSIUM           | 450        | J          | 679        | J          | 878        | J    | 892    | J    | 668   | J  |
| SELENIUM            | 4.0        | U          | 5.0        | U          | 11.1       | U    | 6.3    | U    | 4.9   | U  |
| SILVER              | 0.59       | J          | 2.7        |            | 3.2        | U    | 1.8    | U    | 1.4   | U  |
| SODIUM              | 574        | U          | 712        | U          | 1590       | U    | 894    | U    | 695   | U  |
| THALLIUM            | 2.9        | UJ         | 3.6        | UJ         | 7.9        | U    | 4.5    | U    | 3.5   | U  |
| VANADIUM            | 11.3       | J          | 7.9        | J          | 17.3       | J    | 13.3   | J    | 13.8  | J  |
| ZINC                | 2540       | J+         | 9490       | J+         | 5650       | J+   | 1240   | J+   | 425   | J+ |
| CYANIDE             | 2.9        | UJ         | 3.6        | UJ         | 7.9        | UJ   | 4.5    | UJ   | 3.5   | UJ |



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

|               |  |                         |                      |                                    |                      |                           |                 |
|---------------|--|-------------------------|----------------------|------------------------------------|----------------------|---------------------------|-----------------|
| Date Shipped: | 11/19/2009   | Chain of Custody Record |                      | Sampler Signature: <i>Lance R.</i> | Case No: 39260       | DAS No: M1E0002           | SDG No: L       |
| Carrier Name: | UPS  | Relinquished By         | (Date / Time)        | Received By                        | (Date / Time)        |                           |                 |
| Airbill:      | 1z6215892210084177   | <i>7041</i>             | <i>11/19/09 0900</i> | <i>PR</i>                          | <i>11-20-09 0930</i> | Lab Contract No: EPW08044 |                 |
| Shipped to:   | Bonner Analytical Testing Company<br>2703 Oak Grove Road<br>Hattiesburg MS 39402<br>(601) 264-2854 | 2                       |                      |                                    |                      | Unit Price:               |                 |
|               | 3  |                         |                      |                                    |                      | Transfer To:              |                 |
|               | 4  |                         |                      |                                    |                      | Lab Contract No:          |                 |
|               |  |                         |                      |                                    |                      | Unit Price:               | <i>11-20-09</i> |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER          | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|--------------------------|------------|----------------------|-------------------------------|------------------|--------------------------|--------------------|--|
| ME0002               | Waste/<br>Lance Range    | M/G        | ICP-AES (21)         | 5c105060 (Ice Only) (1)       | X302             | S: 11/17/2009 16:00      |                    | <i>good</i>                                  |
| ME0003               | Waste/<br>Lance Range    | M/G        | ICP-AES (21)         | 5c105061 (Ice Only) (1)       | X303             | S: 11/17/2009 16:10      |                    |  |
| ME0004               | Waste/<br>Lance Range    | M/G        | ICP-AES (21)         | 5c105062 (Ice Only) (1)       | X304             | S: 11/17/2009 16:20      |                    |  |
| ME0005               | Waste/<br>Lance Range    | M/G        | ICP-AES (21)         | 5c105063 (Ice Only) (1)       | X305             | S: 11/17/2009 16:30      |                    |  |
| ME0006               | Waste/<br>Lance Range    | M/G        | ICP-AES (21)         | 5c105059 (Ice Only) (1)       | X301             | S: 11/17/2009 15:30      |                    |  |
| ME0007               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105064 (Ice Only) (1)       | X200             | S: 11/18/2009 9:45       |                    |  |
| ME0008               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105065 (Ice Only) (1)       | X201A            | S: 11/18/2009 9:20       |                    |  |
| ME0009               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105066 (Ice Only) (1)       | X201B            | S: 11/18/2009 9:20       |                    |  |
| ME0010               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105067 (Ice Only) (1)       | X202             | S: 11/18/2009 9:00       |                    |  |
| ME0011               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105068 (Ice Only) (1)       | X203             | S: 11/16/2009 15:30      |                    |  |

|   |   |   |  |   |
|---|---|---|--|---|
| Shipment for Case Complete? N<br><input checked="" type="checkbox"/>              | Sample(s) to be used for laboratory QC:<br><i>ME0009 / ME0026</i> | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt:                         | Chain of Custody Seal Number:<br><i>28899/28898</i> |
| Analysis Key:<br><input checked="" type="checkbox"/> ICP-AES = HG, CN, ICP METALS | Concentration: L = Low, M = Low/Medium, H = High                  | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/>  |

TR Number: 5-554006491-111809-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

**LABORATORY COPY**



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

|                  |          |
|------------------|----------|
| Case No:         | 39260    |
| DAS No:          | ME0002   |
| SDG No:          | L        |
| For Lab Use Only |          |
| Lab Contract No: | EPW08044 |
| Unit Price:      |          |
| Transfer To:     |          |
| Lab Contract No: |          |
| Unit Price:      | 11-20-09 |

|               |  |                         |               |                    |                 |
|---------------|--|-------------------------|---------------|--------------------|-----------------|
| Date Shipped: | 11/19/2009   | Chain of Custody Record |               | Sampler Signature: | <i>Lance R.</i> |
| Carrier Name: | UPS  | Relinquished By         | (Date / Time) | Received By        | (Date / Time)   |
| Airbill:      | 1z6215892210084177   | 1                       | 11/19/09 0900 | 2                  | 11-20-09 0930   |
| Shipped to:   | Bonner Analytical Testing Company<br>2703 Oak Grove Road<br>Hattiesburg MS 39402<br>(601) 264-2854 | 2                       |               | 3                  |                 |
|               |  | 3                       |               | 4                  |                 |
|               |  | 4                       |               |                    |                 |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER          | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY<br>Sample Condition On Receipt |
|----------------------|--------------------------|------------|----------------------|--------------------------------|------------------|--------------------------|--------------------|---|
| ME0012               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105069 (Ice Only) (1)        | X204             | S: 11/16/2009 14:30      |                    | <i>good</i>                                     |
| ME0013               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105070 (Ice Only) (1)        | X205             | S: 11/16/2009 14:00      |                    |   |
| ME0014               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105071 (Ice Only) (1)        | X206             | S: 11/16/2009 13:45      |                    |   |
| ME0015               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105072 (Ice Only) (1)        | X207             | S: 11/16/2009 13:15      |                    |   |
| ME0016               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105073 (Ice Only) (1)        | X208             | S: 11/16/2009 11:30      |                    |   |
| ME0017               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105074 (Ice Only) (1)        | X209             | S: 11/16/2009 11:00      |                    |   |
| ME0018               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105075 (Ice Only) (1)        | X210             | S: 11/16/2009 10:30      |                    |   |
| ME0019               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105076 (Ice Only) (1)        | X211             | S: 11/17/2009 9:00       |                    |   |
| ME0020               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105077 (Ice Only) (1)        | X212             | S: 11/17/2009 9:45       |                    |   |
| ME0021               | Sediment/<br>Lance Range | L/G        | ICP-AES (21)         | 5c105078 (Ice Only) (1)        | X213             | S: 11/17/2009 10:00      |                    |   |

|   |  |   |  |   |
|---|--|---|--|---|
| Statement for Case Complete? N<br>G e         | Sample(s) to be used for laboratory QC:<br><i>ME009 / ME0026</i> | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt:                         | Chain of Custody Seal Number:<br><i>28899 / 28898</i> |
| Analysis Key:<br>ICP-AES = HG, CN, ICP METALS | Concentration: L = Low, M = Low/Medium, H = High                 | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/>    |

TR Number: 5-554006491-111809-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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F2V5.1.043 Page 2 of 4

# Bonner Analytical Testing Company



2703 Oak Grove Road, Hattiesburg, MS 39402  
Phone: (601) 264-2854 Fax: (601) 268-7084

## SDG NARRATIVE:

**SDG Number: ME0002**

**Case Number: 39260**

**Contract Number: EPW08064**

### Sample Receipt:

On November 20, 2009, we received 20 soil samples in 2 coolers under UPS tracking numbers 1Z621 589 22 1008 4186 and 1Z621 589 22 1008 4177. Custody seals were present and intact. Cooler temps were determined to be 3°C and 8.5°C. Samples were received in good condition with no discrepancies.

### Metals

The analytical run began 12/06/2009 @ 1521 hrs. ME0002, 03, 04, 10, 12, 13, 17 and 18 were over the range for Ca; 02, 03, 04, 05, 06 and 18 were over the range for Zn; 05 was over the range for Pb—the samples were reanalyzed at appropriate dilutions. The matrix spike was inconclusive in the first run; the matrix spike was reanalyzed. The matrix spike failed for Sb and Zn; a post spike was analyzed at twice the CRQL for Sb and at twice the indigenous level for Zn.

### Mercury

No Discrepancies

### Cyanide

The analytical run began 12/02/2009 @ 1031 hrs. There were bubbles in the line during the analysis of ME0002, 03, 04, 12 and 13; the samples were reanalyzed. The matrix spike failed; a post spike was analyzed at 100 ppb.

### CSF

No Discrepancies

Sample Equation:Lab ID 0911277-03 EPA Sample # ME0004Date & Time 12/06/2009 @ 16:3

$$\begin{array}{ccccccccc} \text{Metals: } & 338.48 & \mu\text{g/L} & * & (0.100 \text{ L}) & * & 100 \% & * & 1000 \text{ g} \\ (\text{Analyte: As}) & & & & & & & * & 1 \text{ mg} \\ & & & & & & & & = 41.4 \text{ mg} \\ & & & & & & & & \text{kg} \\ & & & & (1.00 \text{ g}) & & 81.8 \% & & 1 \text{ kg} \\ & & & & & & & & 1000 \mu\text{g} \end{array}$$

Date & Time 12/02/2009 @ 11:55

$$\begin{array}{ccccccccc} \text{Hg: } & 0.1438 & \mu\text{g/L} & * & (0.100 \text{ L}) & * & 100 \% & * & 1000 \text{ g} \\ & & & & & & & * & 1 \text{ mg} \\ & & & & & & & & = 0.088 \text{ mg} \\ & & & & & & & & \text{kg} \\ & & & & (0.20 \text{ g}) & & 81.8 \% & & 1 \text{ kg} \\ & & & & & & & & 1000 \mu\text{g} \end{array}$$

Date & Time 12/02/2009 @ 15:51

$$\begin{array}{ccccccccc} \text{CN: } & 5.02 & \mu\text{g/L} & * & (0.050 \text{ L}) & * & 100 \% & * & 1000 \text{ g} \\ & & & & & & & * & 1 \text{ mg} \\ & & & & & & & & = 0.31 \text{ mg} \\ & & & & & & & & \text{kg} \\ & & & & (1.00 \text{ g}) & & 81.8 \% & & 1 \text{ kg} \\ & & & & & & & & 1000 \mu\text{g} \end{array}$$

(CRQL reported)

Authorized by


  
 Daniel Antrim  
 Document Control Officer

DEC 11 2009

1

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## COVER PAGE

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.:

SDG No.: ME0002

SOW No.: ILM05.4

EPA SAMPLE NO.

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ME0002  
ME0003  
ME0004  
ME0005  
ME0006  
ME0007  
ME0008  
ME0009  
ME0009D  
ME0009S  
ME0010  
ME0011  
ME0012  
ME0013  
ME0014  
ME0015  
ME0016  
ME0017  
ME0018  
ME0019  
ME0020  
ME0021

Lab Sample ID:

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0911277-01  
0911277-02  
0911277-03  
0911277-04  
0911277-05  
0911277-06  
0911277-07  
0911277-08  
0911277-08DUP  
0911277-08MS  
0911277-09  
0911277-10  
0911277-11  
0911277-12  
0911277-13  
0911277-14  
0911277-15  
0911277-16  
0911277-17  
0911277-18  
0911277-19  
0911277-20

Were ICP-AES and ICP interelement corrections applied?

(Yes/No) Yes ICP-AES Yes ICP-MS Yes

Were ICP-AES and ICP background corrections applied?

(Yes/No) Yes ICP-AES Yes ICP-MS Yes

If yes, were raw data generated before application of background corrections?

(Yes/No) No ICP-AES No ICP-MS No

## Comments:

Al, Ba, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, V, Zn were flagged as "E" estimated due to interferences occurring during the analysis of the Serial Dilution.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA), has been authorized by the Labortory Mangager or the Manager's designee, as verified by the following signature.

Signature: Brandon G. Beck Name: Brandon G. Beck For Chris Bonner  
Date: 12/10/05 Title: President

COVER PAGE

ILM05.4

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IA-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0002

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-01

Level: (low/med) LOW Date Received: 11/20/2009

% Solids 93.3

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 122           |   | E       | P  |
| 7440-36-0 | Antimony  | 6.4           | U | N       | P  |
| 7440-38-2 | Arsenic   | 15.3          |   |         | P  |
| 7440-39-3 | Barium    | 11.9          | J | E       | P  |
| 7440-41-7 | Beryllium | 0.065         | J |         | P  |
| 7440-43-9 | Cadmium   | 39.0          |   |         | P  |
| 7440-70-2 | Calcium   | 165000        |   | D E     | P  |
| 7440-47-3 | Chromium  | 0.77          | J |         | P  |
| 7440-48-4 | Cobalt    | 2.9           | J | E       | P  |
| 7440-50-8 | Copper    | 66.2          |   | E       | P  |
| 7439-89-6 | Iron      | 26100         |   | E       | P  |
| 7439-92-1 | Lead      | 3610          |   | E       | P  |
| 7439-95-4 | Magnesium | 90200         |   | D * E   | P  |
| 7439-96-5 | Manganese | 1120          |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.11          | U |         | CV |
| 7440-02-0 | Nickel    | 6.2           |   | E       | P  |
| 7440-09-7 | Potassium | 82.5          | J | E       | P  |
| 7782-49-2 | Selenium  | 3.8           | U |         | P  |
| 7440-22-4 | Silver    | 2.8           |   |         | P  |
| 7440-23-5 | Sodium    | 176           | J |         | P  |
| 7440-28-0 | Thallium  | 0.18          | J |         | P  |
| 7440-62-2 | Vanadium  | 0.75          | J | E       | P  |
| 7440-66-6 | Zinc      | 15400         |   | D * N E | P  |
| 57-12-5   | Cyanide   | 2.7           | U | N       | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0003

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0002

Matrix: (Soil/Water) SOIL

Lab Sample ID: 0911277-02

Level: (low/med) LOW

Date Received: 11/20/2009

% Solids 91.8

Concentration Units (ug/L or mg/kg dry weight):

mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 335           |   | E       | P  |
| 7440-36-0 | Antimony  | 6.5           | U | N       | P  |
| 7440-38-2 | Arsenic   | 30.2          |   |         | P  |
| 7440-39-3 | Barium    | 3.3           | J | E       | P  |
| 7440-41-7 | Beryllium | 0.075         | J |         | P  |
| 7440-43-9 | Cadmium   | 19.0          |   |         | P  |
| 7440-70-2 | Calcium   | 199000        |   | D E     | P  |
| 7440-47-3 | Chromium  | 1.3           |   |         | P  |
| 7440-48-4 | Cobalt    | 3.8           | J | E       | P  |
| 7440-50-8 | Copper    | 5.8           |   | E       | P  |
| 7439-89-6 | Iron      | 28100         |   | E       | P  |
| 7439-92-1 | Lead      | 3120          |   | E       | P  |
| 7439-95-4 | Magnesium | 77400         |   | * E     | P  |
| 7439-96-5 | Manganese | 1160          |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.052         | J |         | CV |
| 7440-02-0 | Nickel    | 12.6          |   | E       | P  |
| 7440-09-7 | Potassium | 228           | J | E       | P  |
| 7782-49-2 | Selenium  | 3.8           | U |         | P  |
| 7440-22-4 | Silver    | 2.1           |   |         | P  |
| 7440-23-5 | Sodium    | 186           | J |         | P  |
| 7440-28-0 | Thallium  | 2.7           | U |         | P  |
| 7440-62-2 | Vanadium  | 1.7           | J | E       | P  |
| 7440-66-6 | Zinc      | 7880          |   | D * N E | P  |
| 57-12-5   | Cyanide   | 2.7           | U | N       | AS |

Color Before: BROWN

Clarity Before: \_\_\_\_\_

Texture: MEDIUM

Color After: COLORLESS

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0004

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-03  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 81.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 1020          |   | E       | P  |
| 7440-36-0 | Antimony  | 7.3           | U | N       | P  |
| 7440-38-2 | Arsenic   | 41.4          |   |         | P  |
| 7440-39-3 | Barium    | 21.0          | J | E       | P  |
| 7440-41-7 | Beryllium | 0.20          | J |         | P  |
| 7440-43-9 | Cadmium   | 19.8          |   |         | P  |
| 7440-70-2 | Calcium   | 141000        |   | D E     | P  |
| 7440-47-3 | Chromium  | 2.5           |   |         | P  |
| 7440-48-4 | Cobalt    | 9.3           |   | E       | P  |
| 7440-50-8 | Copper    | 36.2          |   | E       | P  |
| 7439-89-6 | Iron      | 43900         |   | E       | P  |
| 7439-92-1 | Lead      | 8970          |   | E       | P  |
| 7439-95-4 | Magnesium | 60600         |   | * E     | P  |
| 7439-96-5 | Manganese | 904           |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.088         | J |         | CV |
| 7440-02-0 | Nickel    | 24.2          |   | E       | P  |
| 7440-09-7 | Potassium | 606           | J | E       | P  |
| 7782-49-2 | Selenium  | 0.64          | J |         | P  |
| 7440-22-4 | Silver    | 2.4           |   |         | P  |
| 7440-23-5 | Sodium    | 111           | J |         | P  |
| 7440-28-0 | Thallium  | 3.1           | U |         | P  |
| 7440-62-2 | Vanadium  | 2.4           | J | E       | P  |
| 7440-66-6 | Zinc      | 8800          |   | D * N E | P  |
| 57-12-5   | Cyanide   | 3.1           | U | N       | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0005

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-04

Level: (low/med) LOW Date Received: 11/20/2009

% Solids 79.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 1520          |   | E       | P  |
| 7440-36-0 | Antimony  | 7.5           | U | N       | P  |
| 7440-38-2 | Arsenic   | 68.0          |   |         | P  |
| 7440-39-3 | Barium    | 18.6          | J | E       | P  |
| 7440-41-7 | Beryllium | 0.30          | J |         | P  |
| 7440-43-9 | Cadmium   | 37.8          |   |         | P  |
| 7440-70-2 | Calcium   | 85600         |   | E       | P  |
| 7440-47-3 | Chromium  | 2.5           |   |         | P  |
| 7440-48-4 | Cobalt    | 26.2          |   | E       | P  |
| 7440-50-8 | Copper    | 44.1          |   | E       | P  |
| 7439-89-6 | Iron      | 79000         |   | D E     | P  |
| 7439-92-1 | Lead      | 15500         |   | D E     | P  |
| 7439-95-4 | Magnesium | 37700         |   | * E     | P  |
| 7439-96-5 | Manganese | 913           |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.13          |   |         | CV |
| 7440-02-0 | Nickel    | 59.7          |   | E       | P  |
| 7440-09-7 | Potassium | 1000          |   | E       | P  |
| 7782-49-2 | Selenium  | 0.62          | J |         | P  |
| 7440-22-4 | Silver    | 3.8           |   |         | P  |
| 7440-23-5 | Sodium    | 66.6          | J |         | P  |
| 7440-28-0 | Thallium  | 3.1           | U |         | P  |
| 7440-62-2 | Vanadium  | 2.7           | J | E       | P  |
| 7440-66-6 | Zinc      | 19000         |   | D * N E | P  |
| 57-12-5   | Cyanide   | 3.1           | U | N       | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0006

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-05  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 74.1

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 3260          |   | E       | P  |
| 7440-36-0 | Antimony  | 8.1           | U | N       | P  |
| 7440-38-2 | Arsenic   | 26.1          |   |         | P  |
| 7440-39-3 | Barium    | 22.9          | J | E       | P  |
| 7440-41-7 | Beryllium | 0.50          | J |         | P  |
| 7440-43-9 | Cadmium   | 33.0          |   |         | P  |
| 7440-70-2 | Calcium   | 106000        |   | E       | P  |
| 7440-47-3 | Chromium  | 6.7           |   |         | P  |
| 7440-48-4 | Cobalt    | 17.3          |   | E       | P  |
| 7440-50-8 | Copper    | 265           |   | E       | P  |
| 7439-89-6 | Iron      | 29300         |   | E       | P  |
| 7439-92-1 | Lead      | 1460          |   | E       | P  |
| 7439-95-4 | Magnesium | 36500         |   | * E     | P  |
| 7439-96-5 | Manganese | 826           |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.10          | J |         | CV |
| 7440-02-0 | Nickel    | 33.5          |   | E       | P  |
| 7440-09-7 | Potassium | 1910          |   | E       | P  |
| 7782-49-2 | Selenium  | 0.59          | J |         | P  |
| 7440-22-4 | Silver    | 2.5           |   |         | P  |
| 7440-23-5 | Sodium    | 89.9          | J |         | P  |
| 7440-28-0 | Thallium  | 0.28          | J |         | P  |
| 7440-62-2 | Vanadium  | 4.7           | J | E       | P  |
| 7440-66-6 | Zinc      | 16100         |   | D * N E | P  |
| 57-12-5   | Cyanide   | 3.4           | U | N       | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0007

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-06  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 52.8

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight):  $\text{mg/Kg}$ 

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 6260          |   | E     | P  |
| 7440-36-0 | Antimony  | 11.4          | U | N     | P  |
| 7440-38-2 | Arsenic   | 20.8          |   |       | P  |
| 7440-39-3 | Barium    | 112           |   | E     | P  |
| 7440-41-7 | Beryllium | 0.067         | J |       | P  |
| 7440-43-9 | Cadmium   | 5.8           |   |       | P  |
| 7440-70-2 | Calcium   | 124000        |   | E     | P  |
| 7440-47-3 | Chromium  | 14.7          |   |       | P  |
| 7440-48-4 | Cobalt    | 13.1          |   | E     | P  |
| 7440-50-8 | Copper    | 9.5           |   | E     | P  |
| 7439-89-6 | Iron      | 36800         |   | E     | P  |
| 7439-92-1 | Lead      | 113           |   | E     | P  |
| 7439-95-4 | Magnesium | 47300         |   | * E   | P  |
| 7439-96-5 | Manganese | 1680          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.10          | J |       | CV |
| 7440-02-0 | Nickel    | 21.7          |   | E     | P  |
| 7440-09-7 | Potassium | 1090          |   | E     | P  |
| 7782-49-2 | Selenium  | 0.70          | J |       | P  |
| 7440-22-4 | Silver    | 1.2           | J |       | P  |
| 7440-23-5 | Sodium    | 202           | J |       | P  |
| 7440-28-0 | Thallium  | 4.7           | U |       | P  |
| 7440-62-2 | Vanadium  | 24.2          |   | E     | P  |
| 7440-66-6 | Zinc      | 1570          |   | * N E | P  |
| 57-12-5   | Cyanide   | 4.7           | U | N     | AS |

Color Before: BROWN Clarity Before: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0008

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-07  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 70.5

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 7770          |   | E     | P  |
| 7440-36-0 | Antimony  | 8.5           | U | N     | P  |
| 7440-38-2 | Arsenic   | 5.1           |   |       | P  |
| 7440-39-3 | Barium    | 86.1          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.71          | U |       | P  |
| 7440-43-9 | Cadmium   | 6.9           |   |       | P  |
| 7440-70-2 | Calcium   | 57000         |   | E     | P  |
| 7440-47-3 | Chromium  | 14.8          |   |       | P  |
| 7440-48-4 | Cobalt    | 7.1           |   | E     | P  |
| 7440-50-8 | Copper    | 13.8          |   | E     | P  |
| 7439-89-6 | Iron      | 12800         |   | E     | P  |
| 7439-92-1 | Lead      | 13.6          |   | E     | P  |
| 7439-95-4 | Magnesium | 25200         |   | * E   | P  |
| 7439-96-5 | Manganese | 431           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.047         | J |       | CV |
| 7440-02-0 | Nickel    | 16.4          |   | E     | P  |
| 7440-09-7 | Potassium | 1140          |   | E     | P  |
| 7782-49-2 | Selenium  | 0.63          | J |       | P  |
| 7440-22-4 | Silver    | 0.68          | J |       | P  |
| 7440-23-5 | Sodium    | 133           | J |       | P  |
| 7440-28-0 | Thallium  | 3.5           | U |       | P  |
| 7440-62-2 | Vanadium  | 23.1          |   | E     | P  |
| 7440-66-6 | Zinc      | 3760          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.5           | U | N     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0009

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-08  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 7680          |   | E     | P  |
| 7440-36-0 | Antimony  | 8.7           | U | N     | P  |
| 7440-38-2 | Arsenic   | 6.0           |   |       | P  |
| 7440-39-3 | Barium    | 86.3          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.046         | J |       | P  |
| 7440-43-9 | Cadmium   | 0.36          | J |       | P  |
| 7440-70-2 | Calcium   | 54400         |   | E     | P  |
| 7440-47-3 | Chromium  | 14.7          |   |       | P  |
| 7440-48-4 | Cobalt    | 8.7           |   | E     | P  |
| 7440-50-8 | Copper    | 11.3          |   | E     | P  |
| 7439-89-6 | Iron      | 14500         |   | E     | P  |
| 7439-92-1 | Lead      | 14.1          |   | E     | P  |
| 7439-95-4 | Magnesium | 24600         |   | * E   | P  |
| 7439-96-5 | Manganese | 643           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.038         | J |       | CV |
| 7440-02-0 | Nickel    | 18.8          |   | E     | P  |
| 7440-09-7 | Potassium | 1210          |   | E     | P  |
| 7782-49-2 | Selenium  | 0.57          | J |       | P  |
| 7440-22-4 | Silver    | 1.5           | U |       | P  |
| 7440-23-5 | Sodium    | 119           | J |       | P  |
| 7440-28-0 | Thallium  | 3.6           | U |       | P  |
| 7440-62-2 | Vanadium  | 23.0          |   | E     | P  |
| 7440-66-6 | Zinc      | 151           |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.6           | U | N     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0010

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-09  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 36.6

Concentration Units ( $\mu\text{g}/\text{L}$  or  $\text{mg}/\text{kg}$  dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 6030          |   | E     | P  |
| 7440-36-0 | Antimony  | 16.4          | U | N     | P  |
| 7440-38-2 | Arsenic   | 24.8          |   |       | P  |
| 7440-39-3 | Barium    | 91.0          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.095         | J |       | P  |
| 7440-43-9 | Cadmium   | 16.7          |   |       | P  |
| 7440-70-2 | Calcium   | 286000        |   | D E   | P  |
| 7440-47-3 | Chromium  | 12.1          |   |       | P  |
| 7440-48-4 | Cobalt    | 10.1          | J | E     | P  |
| 7440-50-8 | Copper    | 6.1           | J | E     | P  |
| 7439-89-6 | Iron      | 46300         |   | E     | P  |
| 7439-92-1 | Lead      | 213           |   | E     | P  |
| 7439-95-4 | Magnesium | 106000        |   | * E   | P  |
| 7439-96-5 | Manganese | 2870          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.27          | U |       | CV |
| 7440-02-0 | Nickel    | 20.1          |   | E     | P  |
| 7440-09-7 | Potassium | 958           | J | E     | P  |
| 7782-49-2 | Selenium  | 9.6           | U |       | P  |
| 7440-22-4 | Silver    | 1.7           | J |       | P  |
| 7440-23-5 | Sodium    | 308           | J |       | P  |
| 7440-28-0 | Thallium  | 6.8           | U |       | P  |
| 7440-62-2 | Vanadium  | 21.4          |   | E     | P  |
| 7440-66-6 | Zinc      | 6490          |   | * N E | P  |
| 57-12-5   | Cyanide   | 6.8           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: COARSEColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0011

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-10  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 75.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 5760          |   | E     | P  |
| 7440-36-0 | Antimony  | 7.9           | U | N     | P  |
| 7440-38-2 | Arsenic   | 9.8           |   |       | P  |
| 7440-39-3 | Barium    | 102           |   | E     | P  |
| 7440-41-7 | Beryllium | 0.066         | J |       | P  |
| 7440-43-9 | Cadmium   | 12.6          |   |       | P  |
| 7440-70-2 | Calcium   | 34900         |   | E     | P  |
| 7440-47-3 | Chromium  | 9.8           |   |       | P  |
| 7440-48-4 | Cobalt    | 5.6           | J | E     | P  |
| 7440-50-8 | Copper    | 5.9           |   | E     | P  |
| 7439-89-6 | Iron      | 20500         |   | E     | P  |
| 7439-92-1 | Lead      | 34.0          |   | E     | P  |
| 7439-95-4 | Magnesium | 17900         |   | * E   | P  |
| 7439-96-5 | Manganese | 875           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.13          | U |       | CV |
| 7440-02-0 | Nickel    | 10.2          |   | E     | P  |
| 7440-09-7 | Potassium | 563           | J | E     | P  |
| 7782-49-2 | Selenium  | 0.91          | J |       | P  |
| 7440-22-4 | Silver    | 1.3           |   |       | P  |
| 7440-23-5 | Sodium    | 70.9          | J |       | P  |
| 7440-28-0 | Thallium  | 3.3           | U |       | P  |
| 7440-62-2 | Vanadium  | 13.4          |   | E     | P  |
| 7440-66-6 | Zinc      | 4680          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.3           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0012

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-11  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 78.7

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 1450          |   | E     | P  |
| 7440-36-0 | Antimony  | 7.6           | U | N     | P  |
| 7440-38-2 | Arsenic   | 11.1          |   |       | P  |
| 7440-39-3 | Barium    | 27.8          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.057         | J |       | P  |
| 7440-43-9 | Cadmium   | 11.9          |   |       | P  |
| 7440-70-2 | Calcium   | 180000        |   | D E   | P  |
| 7440-47-3 | Chromium  | 3.4           |   |       | P  |
| 7440-48-4 | Cobalt    | 3.2           | J | E     | P  |
| 7440-50-8 | Copper    | 1.9           | J | E     | P  |
| 7439-89-6 | Iron      | 22100         |   | E     | P  |
| 7439-92-1 | Lead      | 101           |   | E     | P  |
| 7439-95-4 | Magnesium | 63400         |   | * E   | P  |
| 7439-96-5 | Manganese | 2280          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.045         | J |       | CV |
| 7440-02-0 | Nickel    | 6.1           |   | E     | P  |
| 7440-09-7 | Potassium | 282           | J | E     | P  |
| 7782-49-2 | Selenium  | 4.4           | U |       | P  |
| 7440-22-4 | Silver    | 1.1           | J |       | P  |
| 7440-23-5 | Sodium    | 173           | J |       | P  |
| 7440-28-0 | Thallium  | 3.2           | U |       | P  |
| 7440-62-2 | Vanadium  | 5.7           | J | E     | P  |
| 7440-66-6 | Zinc      | 4650          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.2           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: COARSEColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0013

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-12

Level: (low/med) LOW Date Received: 11/20/2009

% Solids 91.6

Concentration Units ( $\mu\text{g}/\text{L}$  or  $\text{mg}/\text{kg}$  dry weight):  $\text{mg}/\text{Kg}$ 

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 838           |   | E     | P  |
| 7440-36-0 | Antimony  | 6.6           | U | N     | P  |
| 7440-38-2 | Arsenic   | 11.1          |   |       | P  |
| 7440-39-3 | Barium    | 20.0          | J | E     | P  |
| 7440-41-7 | Beryllium | 0.069         | J |       | P  |
| 7440-43-9 | Cadmium   | 10.8          |   |       | P  |
| 7440-70-2 | Calcium   | 136000        |   | D E   | P  |
| 7440-47-3 | Chromium  | 2.4           |   |       | P  |
| 7440-48-4 | Cobalt    | 2.8           | J | E     | P  |
| 7440-50-8 | Copper    | 1.1           | J | E     | P  |
| 7439-89-6 | Iron      | 16900         |   | E     | P  |
| 7439-92-1 | Lead      | 95.1          |   | E     | P  |
| 7439-95-4 | Magnesium | 59200         |   | * E   | P  |
| 7439-96-5 | Manganese | 1740          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.057         | J |       | CV |
| 7440-02-0 | Nickel    | 5.1           |   | E     | P  |
| 7440-09-7 | Potassium | 186           | J | E     | P  |
| 7782-49-2 | Selenium  | 3.8           | U |       | P  |
| 7440-22-4 | Silver    | 1.1           |   |       | P  |
| 7440-23-5 | Sodium    | 143           | J |       | P  |
| 7440-28-0 | Thallium  | 2.7           | U |       | P  |
| 7440-62-2 | Vanadium  | 3.9           | J | E     | P  |
| 7440-66-6 | Zinc      | 4270          |   | * N E | P  |
| 57-12-5   | Cyanide   | 2.7           | U | N     | AS |

Color Before: BROWN Clarity Before: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0014

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-13

Level: (low/med) LOW Date Received: 11/20/2009

% Solids 66.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 4740          |   | E     | P  |
| 7440-36-0 | Antimony  | 9.0           | U | N     | P  |
| 7440-38-2 | Arsenic   | 11.9          |   |       | P  |
| 7440-39-3 | Barium    | 85.5          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.75          | U |       | P  |
| 7440-43-9 | Cadmium   | 12.5          |   |       | P  |
| 7440-70-2 | Calcium   | 85100         |   | E     | P  |
| 7440-47-3 | Chromium  | 8.4           |   |       | P  |
| 7440-48-4 | Cobalt    | 7.1           | J | E     | P  |
| 7440-50-8 | Copper    | 7.0           |   | E     | P  |
| 7439-89-6 | Iron      | 23200         |   | E     | P  |
| 7439-92-1 | Lead      | 986           |   | E     | P  |
| 7439-95-4 | Magnesium | 34400         |   | * E   | P  |
| 7439-96-5 | Manganese | 1310          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.10          | J |       | CV |
| 7440-02-0 | Nickel    | 15.0          |   | E     | P  |
| 7440-09-7 | Potassium | 646           | J | E     | P  |
| 7782-49-2 | Selenium  | 0.51          | J |       | P  |
| 7440-22-4 | Silver    | 1.1           | J |       | P  |
| 7440-23-5 | Sodium    | 112           | J |       | P  |
| 7440-28-0 | Thallium  | 3.8           | U |       | P  |
| 7440-62-2 | Vanadium  | 14.2          |   | E     | P  |
| 7440-66-6 | Zinc      | 5070          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.8           | U | N     | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0015

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-14  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 73.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 4070          |   | E     | P  |
| 7440-36-0 | Antimony  | 8.2           | U | N     | P  |
| 7440-38-2 | Arsenic   | 20.6          |   |       | P  |
| 7440-39-3 | Barium    | 62.8          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.68          | U |       | P  |
| 7440-43-9 | Cadmium   | 10.6          |   |       | P  |
| 7440-70-2 | Calcium   | 61700         |   | E     | P  |
| 7440-47-3 | Chromium  | 6.4           |   |       | P  |
| 7440-48-4 | Cobalt    | 7.4           |   | E     | P  |
| 7440-50-8 | Copper    | 31.1          |   | E     | P  |
| 7439-89-6 | Iron      | 26600         |   | E     | P  |
| 7439-92-1 | Lead      | 533           |   | E     | P  |
| 7439-95-4 | Magnesium | 29600         |   | * E   | P  |
| 7439-96-5 | Manganese | 1040          |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.076         | J |       | CV |
| 7440-02-0 | Nickel    | 14.1          |   | E     | P  |
| 7440-09-7 | Potassium | 577           | J | E     | P  |
| 7782-49-2 | Selenium  | 4.8           | U |       | P  |
| 7440-22-4 | Silver    | 1.3           | J |       | P  |
| 7440-23-5 | Sodium    | 97.6          | J |       | P  |
| 7440-28-0 | Thallium  | 3.4           | U |       | P  |
| 7440-62-2 | Vanadium  | 11.0          |   | E     | P  |
| 7440-66-6 | Zinc      | 4320          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.4           | U | N     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0016

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-15  
 Level: (low/med) LOW Date Received: 11/20/2009.  
 % Solids 66.0

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight):

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 4810          |   | E     | P  |
| 7440-36-0 | Antimony  | 9.1           | U | N     | P  |
| 7440-38-2 | Arsenic   | 5.1           |   |       | P  |
| 7440-39-3 | Barium    | 89.7          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.76          | U |       | P  |
| 7440-43-9 | Cadmium   | 3.5           |   |       | P  |
| 7440-70-2 | Calcium   | 46100         |   | E     | P  |
| 7440-47-3 | Chromium  | 8.1           |   |       | P  |
| 7440-48-4 | Cobalt    | 5.9           | J | E     | P  |
| 7440-50-8 | Copper    | 6.8           |   | E     | P  |
| 7439-89-6 | Iron      | 12800         |   | E     | P  |
| 7439-92-1 | Lead      | 127           |   | E     | P  |
| 7439-95-4 | Magnesium | 22000         |   | * E   | P  |
| 7439-96-5 | Manganese | 921           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.059         | J |       | CV |
| 7440-02-0 | Nickel    | 10.5          |   | E     | P  |
| 7440-09-7 | Potassium | 602           | J | E     | P  |
| 7782-49-2 | Selenium  | 0.77          | J |       | P  |
| 7440-22-4 | Silver    | 1.5           | U |       | P  |
| 7440-23-5 | Sodium    | 75.5          | J |       | P  |
| 7440-28-0 | Thallium  | 3.8           | U |       | P  |
| 7440-62-2 | Vanadium  | 13.6          |   | E     | P  |
| 7440-66-6 | Zinc      | 1530          |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.8           | U | N     | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0017

Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-16Level: (low/med) LOW Date Received: 11/20/2009% Solids 87.1Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 3820          |   | E     | P  |
| 7440-36-0 | Antimony  | 6.9           | U | N     | P  |
| 7440-38-2 | Arsenic   | 6.5           |   |       | P  |
| 7440-39-3 | Barium    | 59.3          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.57          | U |       | P  |
| 7440-43-9 | Cadmium   | 5.9           |   |       | P  |
| 7440-70-2 | Calcium   | 39700         |   | E     | P  |
| 7440-47-3 | Chromium  | 6.6           |   |       | P  |
| 7440-48-4 | Cobalt    | 4.8           | J | E     | P  |
| 7440-50-8 | Copper    | 7.4           |   | E     | P  |
| 7439-89-6 | Iron      | 13200         |   | E     | P  |
| 7439-92-1 | Lead      | 357           |   | E     | P  |
| 7439-95-4 | Magnesium | 20800         |   | * E   | P  |
| 7439-96-5 | Manganese | 713           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.11          | U |       | CV |
| 7440-02-0 | Nickel    | 12.2          |   | E     | P  |
| 7440-09-7 | Potassium | 450           | J | E     | P  |
| 7782-49-2 | Selenium  | 4.0           | U |       | P  |
| 7440-22-4 | Silver    | 0.59          | J |       | P  |
| 7440-23-5 | Sodium    | 67.9          | J |       | P  |
| 7440-28-0 | Thallium  | 2.9           | U |       | P  |
| 7440-62-2 | Vanadium  | 11.3          |   | E     | P  |
| 7440-66-6 | Zinc      | 2540          |   | * N E | P  |
| 57-12-5   | Cyanide   | 2.9           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0018

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-17  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 70.2

Concentration Units (ug/L or mg/kg dry weight):

mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q       | M  |
|-----------|-----------|---------------|---|---------|----|
| 7429-90-5 | Aluminum  | 3060          |   | E       | P  |
| 7440-36-0 | Antimony  | 8.5           | U | N       | P  |
| 7440-38-2 | Arsenic   | 33.9          |   |         | P  |
| 7440-39-3 | Barium    | 86.7          |   | E       | P  |
| 7440-41-7 | Beryllium | 0.10          | J |         | P  |
| 7440-43-9 | Cadmium   | 24.9          |   |         | P  |
| 7440-70-2 | Calcium   | 121000        |   | D E     | P  |
| 7440-47-3 | Chromium  | 6.2           |   |         | P  |
| 7440-48-4 | Cobalt    | 11.6          |   | E       | P  |
| 7440-50-8 | Copper    | 380           |   | E       | P  |
| 7439-89-6 | Iron      | 52800         |   | E       | P  |
| 7439-92-1 | Lead      | 2070          |   | E       | P  |
| 7439-95-4 | Magnesium | 44000         |   | * E     | P  |
| 7439-96-5 | Manganese | 1360          |   | * E     | P  |
| 7439-97-6 | Mercury   | 0.26          |   |         | CV |
| 7440-02-0 | Nickel    | 30.9          |   | E       | P  |
| 7440-09-7 | Potassium | 679           | J | E       | P  |
| 7782-49-2 | Selenium  | 0.84          | J |         | P  |
| 7440-22-4 | Silver    | 2.7           |   |         | P  |
| 7440-23-5 | Sodium    | 73.5          | J |         | P  |
| 7440-28-0 | Thallium  | 3.6           | U |         | P  |
| 7440-62-2 | Vanadium  | 7.9           |   | E       | P  |
| 7440-66-6 | Zinc      | 9490          |   | D * N E | P  |
| 57-12-5   | Cyanide   | 3.6           | U | N       | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0019

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-18  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 31.5

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 7030          |   | E     | P  |
| 7440-36-0 | Antimony  | 19.0          | U | N     | P  |
| 7440-38-2 | Arsenic   | 6.4           |   |       | P  |
| 7440-39-3 | Barium    | 53.6          | J | E     | P  |
| 7440-41-7 | Beryllium | 1.6           | U |       | P  |
| 7440-43-9 | Cadmium   | 1.4           | J |       | P  |
| 7440-70-2 | Calcium   | 12300         |   | E     | P  |
| 7440-47-3 | Chromium  | 10.3          |   |       | P  |
| 7440-48-4 | Cobalt    | 11.8          | J | E     | P  |
| 7440-50-8 | Copper    | 13.6          |   | E     | P  |
| 7439-89-6 | Iron      | 17700         |   | E     | P  |
| 7439-92-1 | Lead      | 61.6          |   | E     | P  |
| 7439-95-4 | Magnesium | 5390          |   | * E   | P  |
| 7439-96-5 | Manganese | 169           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.13          | J |       | CV |
| 7440-02-0 | Nickel    | 22.0          |   | E     | P  |
| 7440-09-7 | Potassium | 878           | J | E     | P  |
| 7782-49-2 | Selenium  | 1.6           | J |       | P  |
| 7440-22-4 | Silver    | 3.2           | U |       | P  |
| 7440-23-5 | Sodium    | 117           | J |       | P  |
| 7440-28-0 | Thallium  | 7.9           | U |       | P  |
| 7440-62-2 | Vanadium  | 17.3          |   | E     | P  |
| 7440-66-6 | Zinc      | 5650          |   | * N E | P  |
| 57-12-5   | Cyanide   | 7.9           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0020

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-19  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 56.0

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 5370          |   | E     | P  |
| 7440-36-0 | Antimony  | 10.7          | U | N     | P  |
| 7440-38-2 | Arsenic   | 2.9           |   |       | P  |
| 7440-39-3 | Barium    | 78.6          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.89          | U |       | P  |
| 7440-43-9 | Cadmium   | 3.0           |   |       | P  |
| 7440-70-2 | Calcium   | 16800         |   | E     | P  |
| 7440-47-3 | Chromium  | 8.4           |   |       | P  |
| 7440-48-4 | Cobalt    | 5.9           | J | E     | P  |
| 7440-50-8 | Copper    | 9.2           |   | E     | P  |
| 7439-89-6 | Iron      | 9060          |   | E     | P  |
| 7439-92-1 | Lead      | 36.1          |   | E     | P  |
| 7439-95-4 | Magnesium | 8530          |   | * E   | P  |
| 7439-96-5 | Manganese | 592           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.058         | J |       | CV |
| 7440-02-0 | Nickel    | 11.1          |   | E     | P  |
| 7440-09-7 | Potassium | 890           | J | E     | P  |
| 7782-49-2 | Selenium  | 0.66          | J |       | P  |
| 7440-22-4 | Silver    | 1.8           | U |       | P  |
| 7440-23-5 | Sodium    | 48.8          | J |       | P  |
| 7440-28-0 | Thallium  | 4.5           | U |       | P  |
| 7440-62-2 | Vanadium  | 13.2          |   | E     | P  |
| 7440-66-6 | Zinc      | 1240          |   | * N E | P  |
| 57-12-5   | Cyanide   | 4.5           | U | N     | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0021

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) SOIL Lab Sample ID: 0911277-20

Level: (low/med) LOW Date Received: 11/20/2009

% Solids 71.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q     | M  |
|-----------|-----------|---------------|---|-------|----|
| 7429-90-5 | Aluminum  | 5340          |   | E     | P  |
| 7440-36-0 | Antimony  | 8.3           | U | N     | P  |
| 7440-38-2 | Arsenic   | 5.3           |   |       | P  |
| 7440-39-3 | Barium    | 88.7          |   | E     | P  |
| 7440-41-7 | Beryllium | 0.70          | U |       | P  |
| 7440-43-9 | Cadmium   | 0.93          |   |       | P  |
| 7440-70-2 | Calcium   | 19600         |   | E     | P  |
| 7440-47-3 | Chromium  | 8.3           |   |       | P  |
| 7440-48-4 | Cobalt    | 6.6           | J | E     | P  |
| 7440-50-8 | Copper    | 7.0           |   | E     | P  |
| 7439-89-6 | Iron      | 12800         |   | E     | P  |
| 7439-92-1 | Lead      | 67.3          |   | E     | P  |
| 7439-95-4 | Magnesium | 10700         |   | * E   | P  |
| 7439-96-5 | Manganese | 556           |   | * E   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |       | CV |
| 7440-02-0 | Nickel    | 12.1          |   | E     | P  |
| 7440-09-7 | Potassium | 668           | J | E     | P  |
| 7782-49-2 | Selenium  | 0.92          | J |       | P  |
| 7440-22-4 | Silver    | 1.4           | U |       | P  |
| 7440-23-5 | Sodium    | 48.7          | J |       | P  |
| 7440-28-0 | Thallium  | 3.5           | U |       | P  |
| 7440-62-2 | Vanadium  | 13.8          |   | E     | P  |
| 7440-66-6 | Zinc      | 425           |   | * N E | P  |
| 57-12-5   | Cyanide   | 3.5           | U | N     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

3-IN  
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte   | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |           |   |           |   | Preparation Blank |   |   |  |
|-----------|----------------------------------|---|-------------------------------------|---|-----------|---|-----------|---|-------------------|---|---|--|
|           |                                  | C | 1                                   | C | 2         | C | 3         | C |                   | C | M |  |
| Aluminum  | 200.000                          | U | 200.000                             | U | 34.725    | J | 31.847    | J | 20.000            | U | P |  |
| Antimony  | 60.000                           | U | 60.000                              | U | 60.000    | U | 60.000    | U | 6.000             | U | P |  |
| Arsenic   | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | -0.280            | J | P |  |
| Barium    | 200.000                          | U | 200.000                             | U | 4.746     | J | 5.010     | J | 20.000            | U | P |  |
| Beryllium | 5.000                            | U | 5.000                               | U | 0.129     | J | 5.000     | U | 0.500             | U | P |  |
| Cadmium   | 5.000                            | U | 0.113                               | J | 0.563     | J | 0.605     | J | 0.500             | U | P |  |
| Calcium   | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | 500.000           | U | P |  |
| Chromium  | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Cobalt    | 50.000                           | U | 50.000                              | U | 1.022     | J | 1.051     | J | -0.037            | J | P |  |
| Copper    | 25.000                           | U | 25.000                              | U | 25.000    | U | 25.000    | U | 2.500             | U | P |  |
| Iron      | 100.000                          | U | 100.000                             | U | 26.956    | J | 25.062    | J | 10.000            | U | P |  |
| Lead      | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Magnesium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | 500.000           | U | P |  |
| Manganese | 15.000                           | U | 15.000                              | U | 1.699     | J | 1.870     | J | 1.500             | U | P |  |
| Nickel    | 40.000                           | U | 40.000                              | U | 40.000    | U | 40.000    | U | 4.000             | U | P |  |
| Potassium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | 500.000           | U | P |  |
| Selenium  | 3.500                            | J | 35.000                              | U | 4.751     | J | 4.744     | J | 3.500             | U | P |  |
| Silver    | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Sodium    | 5,000.000                        | U | 5,000.000                           | U | 51.141    | J | 42.737    | J | 500.000           | U | P |  |
| Thallium  | 25.000                           | U | 1.621                               | J | 2.053     | J | 2.008     | J | -0.183            | J | P |  |
| Vanadium  | 50.000                           | U | 50.000                              | U | 50.000    | U | 50.000    | U | 5.000             | U | P |  |
| Zinc      | 60.000                           | U | 60.000                              | U | 3.400     | J | 2.741     | J | 0.095             | J | P |  |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0002Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte   | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |           |   |           |   | Preparation Blank |   |   |   |
|-----------|----------------------------------|---|-------------------------------------|---|-----------|---|-----------|---|-------------------|---|---|---|
|           |                                  | C | 1                                   | C | 2         | C | 3         | C |                   | C | M |   |
| Aluminum  |                                  |   | 27.880                              | J | 34.920    | J | 200.000   | U |                   |   |   | P |
| Antimony  |                                  |   | 60.000                              | U | 60.000    | U | 60.000    | U |                   |   |   | P |
| Arsenic   |                                  |   | 10.000                              | U | 10.000    | U | 10.000    | U |                   |   |   | P |
| Barium    |                                  |   | 5.036                               | J | 5.536     | J | 1.037     | J |                   |   |   | P |
| Beryllium |                                  |   | 5.000                               | U | 5.000     | U | -0.180    | J |                   |   |   | P |
| Cadmium   |                                  |   | 0.634                               | J | 0.706     | J | 0.190     | J |                   |   |   | P |
| Calcium   |                                  |   | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U |                   |   |   | P |
| Chromium  |                                  |   | 10.000                              | U | 10.000    | U | 10.000    | U |                   |   |   | P |
| Cobalt    |                                  |   | 1.214                               | J | 1.496     | J | 0.360     | J |                   |   |   | P |
| Copper    |                                  |   | 25.000                              | U | 25.000    | U | 25.000    | U |                   |   |   | P |
| Iron      |                                  |   | 24.057                              | J | 29.203    | J | 7.626     | J |                   |   |   | P |
| Lead      |                                  |   | 10.000                              | U | 10.000    | U | 10.000    | U |                   |   |   | P |
| Magnesium |                                  |   | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U |                   |   |   | P |
| Manganese |                                  |   | 1.928                               | J | 2.314     | J | 0.577     | J |                   |   |   | P |
| Nickel    |                                  |   | 40.000                              | U | 40.000    | U | 40.000    | U |                   |   |   | P |
| Potassium |                                  |   | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U |                   |   |   | P |
| Selenium  |                                  |   | 35.000                              | U | 3.210     | J | 35.000    | U |                   |   |   | P |
| Silver    |                                  |   | 10.000                              | U | 10.000    | U | 10.000    | U |                   |   |   | P |
| Sodium    |                                  |   | 51.083                              | J | 34.103    | J | 31.754    | J |                   |   |   | P |
| Thallium  |                                  |   | 2.042                               | J | 2.650     | J | 25.000    | U |                   |   |   | P |
| Vanadium  |                                  |   | 50.000                              | U | 50.000    | U | 50.000    | U |                   |   |   | P |
| Zinc      |                                  |   | 3.256                               | J | 3.316     | J | 1.852     | J |                   |   |   | P |

USEPA - CLP

3-IN  
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte   | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |           |   |           | Preparation Blank |   |   |   |
|-----------|----------------------------------|---|-------------------------------------|---|-----------|---|-----------|-------------------|---|---|---|
|           |                                  | C | 1                                   | C | 2         | C | 3         | C                 | C | M |   |
| Aluminum  | 200.000                          | U | 18.207                              | J | 200.000   | U | 200.000   | U                 |   |   | P |
| Antimony  | 60.000                           | U | 60.000                              | U | 60.000    | U | 60.000    | U                 |   |   | P |
| Arsenic   | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U                 |   |   | P |
| Barium    | 200.000                          | U | 200.000                             | U | 200.000   | U | 0.868     | J                 |   |   | P |
| Beryllium | -0.652                           | J | -0.664                              | J | -0.468    | J | -0.424    | J                 |   |   | P |
| Cadmium   | 5.000                            | U | 0.163                               | J | 0.211     | J | 0.379     | J                 |   |   | P |
| Calcium   | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U                 |   |   | P |
| Chromium  | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U                 |   |   | P |
| Cobalt    | 50.000                           | U | 50.000                              | U | 0.558     | J | 0.580     | J                 |   |   | P |
| Copper    | 25.000                           | U | 1.117                               | J | 25.000    | U | 25.000    | U                 |   |   | P |
| Iron      | 7.897                            | J | 8.393                               | J | 17.788    | J | 14.339    | J                 |   |   | P |
| Lead      | 10.000                           | U | 3.252                               | J | 10.000    | U | 10.000    | U                 |   |   | P |
| Magnesium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U                 |   |   | P |
| Manganese | 15.000                           | U | 1.073                               | J | 15.000    | U | 0.966     | J                 |   |   | P |
| Nickel    | 40.000                           | U | 40.000                              | U | 40.000    | U | 40.000    | U                 |   |   | P |
| Potassium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U                 |   |   | P |
| Selenium  | 35.000                           | U | 35.000                              | U | 35.000    | U | 35.000    | U                 |   |   | P |
| Silver    | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U                 |   |   | P |
| Sodium    | 5,000.000                        | U | 22.283                              | J | 5,000.000 | U | 5,000.000 | U                 |   |   | P |
| Thallium  | 25.000                           | U | 25.000                              | U | 1.483     | J | 1.694     | J                 |   |   | P |
| Vanadium  | 50.000                           | U | 3.108                               | J | 3.834     | J | 50.000    | U                 |   |   | P |
| Zinc      | 60.000                           | U | 60.000                              | U | 60.000    | U | 60.000    | U                 |   |   | P |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |        |   |       |   | Preparation Blank |   |    |  |
|---------|----------------------------------|---|-------------------------------------|---|--------|---|-------|---|-------------------|---|----|--|
|         |                                  | C | 1                                   | C | 2      | C | 3     | C |                   | C | M  |  |
| Mercury | 0.048                            | J | -0.043                              | J | -0.030 | J | 0.200 | U | 0.100             | U | CV |  |

USEPA - CLP

3-IN  
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation Blank |   | CV |
|---------|----------------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|----|
|         |                                  | C | 1                                   | C | 2 | C | 3 | C | C                 | M |    |
| Mercury |                                  |   | 0.200                               | U |   |   |   |   |                   |   |    |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0002Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |        |   |        |   | Preparation Blank |   |    |  |
|---------|----------------------------------|---|-------------------------------------|---|--------|---|--------|---|-------------------|---|----|--|
|         |                                  | C | 1                                   | C | 2      | C | 3      | C |                   | C | M  |  |
| Cyanide | 50.000                           | U | 50.000                              | U | 50.000 | U | -1.390 | J | 2.500             | U | AS |  |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0002Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |        |   |   |   | Preparation Blank |   |   |    |
|---------|----------------------------------|---|-------------------------------------|---|--------|---|---|---|-------------------|---|---|----|
|         |                                  | C | 1                                   | C | 2      | C | 3 | C |                   | C | M |    |
| Cyanide |                                  |   | -1.360                              | J | 50.000 | U |   |   |                   |   |   | AS |

USEPA - CLP

3-IN  
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |        |   |        |   | Preparation Blank |   |    |  |
|---------|----------------------------------|---|-------------------------------------|---|--------|---|--------|---|-------------------|---|----|--|
|         |                                  | C | 1                                   | C | 2      | C | 3      | C |                   | C | M  |  |
| Cyanide | 50.000                           | U | -0.760                              | J | 50.000 | U | 50.000 | U |                   |   | AS |  |

USEPA - CLP

4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPWQ8Q64  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002  
 ICP-AES Instrument ID: ICAPP 6500 ICS Source: USEPA, Lot Part A(1206) B(0203)

Concentration Units: ug/L

| Analyte   | True      |            | Initial found |     |            |     | Final found |     |            |     |
|-----------|-----------|------------|---------------|-----|------------|-----|-------------|-----|------------|-----|
|           | Sol.<br>A | Sol.<br>AB | Sol.<br>A     | %R  | Sol.<br>AB | %R  | Sol.<br>A   | %R  | Sol.<br>AB | %R  |
| Aluminum  | 244000    | 244000     | 254000        | 104 | 256000     | 105 | 253000      | 104 | 256000     | 105 |
| Antimony  | 0         | 589        | -4.4          |     | 617        | 105 | -2.5        |     | 629        | 107 |
| Arsenic   | 0         | 101        | 0.050         |     | 102        | 101 | 0.11        |     | 102        | 101 |
| Barium    | 2         | 495        | 3.0           | 150 | 523        | 106 | 2.6         | 130 | 525        | 106 |
| Beryllium | 0         | 475        | 0.73          |     | 521        | 110 | 0.39        |     | 514        | 108 |
| Cadmium   | 0         | 940        | -0.25         |     | 978        | 104 | -0.44       |     | 993        | 106 |
| Calcium   | 235000    | 231000     | 250000        | 106 | 253000     | 109 | 248000      | 106 | 251000     | 109 |
| Chromium  | 43        | 511        | 45.3          | 105 | 559        | 109 | 45.4        | 106 | 556        | 109 |
| Cobalt    | 4         | 461        | 4.6           | 115 | 480        | 104 | 4.5         | 113 | 488        | 106 |
| Copper    | 23        | 548        | 13.4          | 58  | 541        | 99  | 13.3        | 58  | 545        | 99  |
| Iron      | 95600     | 94800      | 96800         | 101 | 97600      | 103 | 94300       | 99  | 95400      | 101 |
| Lead      | 10        | 61         | 1.1           | 11  | 50.9       | 83  | 2.2         | 22  | 53.5       | 88  |
| Magnesium | 248000    | 251000     | 257000        | 104 | 254000     | 101 | 249000      | 101 | 251000     | 100 |
| Manganese | 19        | 502        | 22.2          | 117 | 531        | 106 | 22.1        | 116 | 521        | 104 |
| Nickel    | 21        | 984        | 18.9          | 90  | 979        | 99  | 18.1        | 86  | 1010       | 103 |
| Potassium | 0         | 0          | 31.2          |     | 28.3       |     | -60.1       |     | -43.0      |     |
| Selenium  | 0         | 53         | 4.2           |     | 53.2       | 100 | 6.4         |     | 55.1       | 104 |
| Silver    | 0         | 206        | 2.9           |     | 224        | 109 | 2.6         |     | 226        | 110 |
| Sodium    | 0         | 0          | 850           |     | 847        |     | 851         |     | 850        |     |
| Thallium  | 0         | 103        | 2.2           |     | 104        | 101 | -2.3        |     | 105        | 102 |
| Vanadium  | 0         | 494        | -0.1          |     | 507        | 103 | -0.20       |     | 500        | 101 |
| Zinc      | 28        | 1030       | 31.0          | 111 | 1000       | 97  | 31.4        | 112 | 1010       | 98  |

USEPA - CLP

4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.: SDG No.: ME0002

ICP-AES Instrument ID: ICAPP 6500

ICS Source: USEPA, Lot Part A(1206) B(0203)

Concentration Units: ug/L

| Analyte   | True      |            | Initial found |    |            |    | Final found |     |            |     |
|-----------|-----------|------------|---------------|----|------------|----|-------------|-----|------------|-----|
|           | Sol.<br>A | Sol.<br>AB | Sol.<br>A     | %R | Sol.<br>AB | %R | Sol.<br>A   | %R  | Sol.<br>AB | %R  |
| Aluminum  | 244000    | 244000     |               |    |            |    | 254000      | 104 | 259000     | 106 |
| Antimony  | 0         | 589        |               |    |            |    | -4.3        |     | 624        | 106 |
| Arsenic   | 0         | 101        |               |    |            |    | -0.23       |     | 102        | 101 |
| Barium    | 2         | 495        |               |    |            |    | 2.7         | 135 | 533        | 108 |
| Beryllium | 0         | 475        |               |    |            |    | 0.47        |     | 520        | 109 |
| Cadmium   | 0         | 940        |               |    |            |    | -0.28       |     | 980        | 104 |
| Calcium   | 235000    | 231000     |               |    |            |    | 247000      | 105 | 251000     | 109 |
| Chromium  | 43        | 511        |               |    |            |    | 44.5        | 103 | 545        | 107 |
| Cobalt    | 4         | 461        |               |    |            |    | 4.4         | 110 | 483        | 105 |
| Copper    | 23        | 548        |               |    |            |    | 13.4        | 58  | 539        | 98  |
| Iron      | 95600     | 94800      |               |    |            |    | 93000       | 97  | 94400      | 100 |
| Lead      | 10        | 61         |               |    |            |    | 0.42        | 4   | 50.8       | 83  |
| Magnesium | 248000    | 251000     |               |    |            |    | 249000      | 101 | 251000     | 100 |
| Manganese | 19        | 502        |               |    |            |    | 21.9        | 115 | 519        | 103 |
| Nickel    | 21        | 984        |               |    |            |    | 18.0        | 86  | 989        | 101 |
| Potassium | 0         | 0          |               |    |            |    | -36.8       |     | -59.0      |     |
| Selenium  | 0         | 53         |               |    |            |    | 4.5         |     | 55.2       | 104 |
| Silver    | 0         | 206        |               |    |            |    | 2.5         |     | 223        | 108 |
| Sodium    | 0         | 0          |               |    |            |    | 851         |     | 851        |     |
| Thallium  | 0         | 103        |               |    |            |    | -0.16       |     | 102        | 99  |
| Titanium  | 0         | 494        |               |    |            |    | -0.036      |     | 503        | 102 |
| Zinc      | 28        | 1030       |               |    |            |    | 31.4        | 112 | 996        | 97  |

USEPA - CLP

4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPWU8064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

ICP-AES Instrument ID: ICAPP 6500 ICS Source: USEPA, Lot Part A(1206) B(0203)

Concentration Units: ug/L

| Analyte   | True      |            | Initial found |    |            |    | Final found |     |            |     |
|-----------|-----------|------------|---------------|----|------------|----|-------------|-----|------------|-----|
|           | Sol.<br>A | Sol.<br>AB | Sol.<br>A     | %R | Sol.<br>AB | %R | Sol.<br>A   | %R  | Sol.<br>AB | %R  |
| Aluminum  | 244000    | 244000     |               |    |            |    | 252000      | 103 | 254000     | 104 |
| Antimony  | 0         | 589        |               |    |            |    | -3.2        |     | 609        | 103 |
| Arsenic   | 0         | 101        |               |    |            |    | -0.41       |     | 99.1       | 98  |
| Barium    | 2         | 495        |               |    |            |    | 3.0         | 150 | 522        | 105 |
| Beryllium | 0         | 475        |               |    |            |    | 0.68        |     | 503        | 106 |
| Cadmium   | 0         | 940        |               |    |            |    | -0.23       |     | 960        | 102 |
| Calcium   | 235000    | 231000     |               |    |            |    | 247000      | 105 | 249000     | 108 |
| Chromium  | 43        | 511        |               |    |            |    | 45.9        | 107 | 566        | 111 |
| Cobalt    | 4         | 461        |               |    |            |    | 4.6         | 115 | 473        | 103 |
| Copper    | 23        | 548        |               |    |            |    | 13.2        | 57  | 540        | 99  |
| Iron      | 95600     | 94800      |               |    |            |    | 92400       | 97  | 93200      | 98  |
| Lead      | 10        | 61         |               |    |            |    | 1.9         | 19  | 50.1       | 82  |
| Magnesium | 248000    | 251000     |               |    |            |    | 242000      | 98  | 244000     | 97  |
| Manganese | 19        | 502        |               |    |            |    | 21.9        | 115 | 513        | 102 |
| Nickel    | 21        | 984        |               |    |            |    | 18.2        | 87  | 965        | 98  |
| Potassium | 0         | 0          |               |    |            |    | -18.0       |     | -22.9      |     |
| Selenium  | 0         | 53         |               |    |            |    | 5.7         |     | 51.2       | 97  |
| Silver    | 0         | 206        |               |    |            |    | 2.3         |     | 225        | 109 |
| Sodium    | 0         | 0          |               |    |            |    | 869         |     | 850        |     |
| Thallium  | 0         | 103        |               |    |            |    | 1.3         |     | 99.9       | 97  |
| Vanadium  | 0         | 494        |               |    |            |    | -0.19       |     | 499        | 101 |
| Zinc      | 28        | 1030       |               |    |            |    | 31.5        | 113 | 982        | 96  |

USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009S

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil

Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte   | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R  | Q      | M        |
|-----------|------------------|---------------------------------|-------------------------|------------------|-----|--------|----------|
| Aluminum  |                  | 9,251.0880                      | 7,680.4060              | 580.60           | 271 |        | P        |
| Antimony  | 75-125           | 4.8055                          | J                       | 8.7000           | U   | 29.03  | 17 N P   |
| Arsenic   | 75-125           | 16.3948                         |                         | 5.9848           |     | 11.61  | 90 P     |
| Barium    | 75-125           | 582.0029                        |                         | 86.3411          |     | 580.60 | 85 P     |
| Beryllium | 75-125           | 11.4225                         |                         | 0.0455           | J   | 14.51  | 78 P     |
| Cadmium   | 75-125           | 16.7605                         |                         | 0.3635           | J   | 14.51  | 113 P    |
| Chromium  | 75-125           | 60.9303                         |                         | 14.6952          |     | 58.06  | 80 P     |
| Cobalt    | 75-125           | 124.7126                        |                         | 8.7383           |     | 145.10 | 80 P     |
| Copper    | 75-125           | 68.2554                         |                         | 11.3464          |     | 72.57  | 78 P     |
| Iron      |                  | 14,058.3500                     |                         | 14,501.6000      |     | 290.30 | -153 P   |
| Lead      | 75-125           | 21.2061                         |                         | 14.0582          |     | 5.81   | 123 P    |
| Manganese |                  | 636.2409                        |                         | 643.0479         |     | 145.10 | -5 P     |
| Nickel    | 75-125           | 129.3367                        |                         | 18.7518          |     | 145.10 | 76 P     |
| Selenium  | 75-125           | 12.3421                         |                         | 0.5659           | J   | 14.51  | 81 P     |
| Silver    | 75-125           | 11.5202                         |                         | 1.5000           | U   | 14.51  | 79 P     |
| Thallium  | 75-125           | 13.8872                         |                         | 3.6000           | U   | 14.51  | 96 P     |
| Vanadium  | 75-125           | 146.1248                        |                         | 22.9840          |     | 145.10 | 85 P     |
| Zinc      | 75-125           | 2,025.3990                      |                         | 151.1321         |     | 145.10 | 1291 N P |

Comments:

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USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009S

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R  | Q | M  |
|---------|------------------|------------------------------|----------------------|------------------|-----|---|----|
| Mercury | 75-125           | 0.8026                       | 0.0385 J             | 0.73             | 105 |   | CV |

Comments:

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USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009S

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R | Q | M  |
|---------|------------------|---------------------------------|-------------------------|------------------|----|---|----|
| Cyanide | 75-125           | 4.9927                          | 3.6000 U                | 7.26             | 69 | N | AS |

Comments:

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USEPA - CLP

5B-IN  
POST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009A

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units ug/L: ug/L

| Analyte  | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C |   | Spike Added (SA)<br>C | %R | Q | M |
|----------|------------------|---------------------------------|-------------------------|---|-----------------------|----|---|---|
|          |                  |                                 | 60.00                   | U |                       |    |   |   |
| Antimony |                  | 90.06                           |                         |   | 120.0                 | 75 |   | P |

Comments:

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USEPA - CLP

5B-IN  
POST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009A

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units ug/L: ug/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R  | Q | M |
|---------|------------------|---------------------------------|-------------------------|------------------|-----|---|---|
| Zinc    |                  | 20,477.00                       | 1,041.30                | 2082.0           | 934 |   | P |

Comments:

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USEPA - CLP

5B-IN  
POST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0009A

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9

Concentration Units ug/L: ug/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R | Q | M  |
|---------|------------------|---------------------------------|-------------------------|------------------|----|---|----|
| Cyanide |                  | 94.41                           | 25.00 U                 | 100.0            | 94 |   | AS |

Comments:

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USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0009D

Lab Name: Bonner Analytical Testing

Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9 % Solids for Duplicate: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte   | Control Limit | Sample (S) |   | Duplicate (D) |   | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-----|---|---|
|           |               | C          |   | C             |   |     |   |   |
| Aluminum  |               | 7680.4060  |   | 7383.5990     |   | 4   |   | P |
| Antimony  |               | 8.7        | U | 8.7           | U | 0   |   | P |
| Arsenic   | 1.5           | 5.9848     |   | 5.7360        |   | 4   |   | P |
| Barium    | 29.0          | 86.3411    |   | 83.1814       |   | 4   |   | P |
| Beryllium |               | 0.0455     | J | 0.73          | U | 200 |   | P |
| Cadmium   |               | 0.3635     | J | 0.5800        | J | 46  |   | P |
| Calcium   |               | 54412.1900 |   | 45015.9600    |   | 19  |   | P |
| Chromium  |               | 14.6952    |   | 14.5167       |   | 1   |   | P |
| Cobalt    | 7.3           | 8.7383     |   | 12.5703       |   | 36  |   | P |
| Copper    | 3.6           | 11.3464    |   | 11.6511       |   | 3   |   | P |
| Iron      |               | 14501.6000 |   | 12523.5100    |   | 15  |   | P |
| Lead      |               | 14.0582    |   | 12.5161       |   | 12  |   | P |
| Magnesium |               | 24612.4800 |   | 17934.6900    |   | 31  | * | P |
| Manganese |               | 643.0479   |   | 509.0856      |   | 23  | * | P |
| Nickel    | 5.8           | 18.7518    |   | 22.8157       |   | 20  |   | P |
| Potassium | 726           | 1214.1510  |   | 1158.0120     |   | 5   |   | P |
| Selenium  |               | 0.5659     | J | 0.7550        | J | 29  |   | P |
| Silver    |               | 1.5        | U | 1.5           | U | 0   |   | P |
| Sodium    |               | 119.1379   | J | 100.3309      | J | 17  |   | P |
| Thallium  |               | 3.6        | U | 3.6           | U | 0   |   | P |
| Vanadium  | 7.3           | 22.9840    |   | 20.9724       |   | 9   |   | P |
| Zinc      |               | 151.1321   |   | 211.2627      |   | 33  | * | P |

USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0009D

Lab Name: Bonner Analytical Testing Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9 % Solids for Duplicate: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit | Sample (S) |   | Duplicate (D) |   | RPD | Q | M  |
|---------|---------------|------------|---|---------------|---|-----|---|----|
|         |               | C          | J | C             | U |     |   |    |
| Mercury |               | 0.0385     | J | 0.15          | U | 200 |   | CV |

USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0009D

Lab Name: Bonner Analytical Testing Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 68.9 % Solids for Duplicate: 68.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit | Sample (S) |   | Duplicate (D) |   | RPD | Q | M  |
|---------|---------------|------------|---|---------------|---|-----|---|----|
|         |               | C          |   | C             |   |     |   |    |
| Cyanide |               | 3.6        | U | 3.6           | U | 0   |   | AS |

USEPA - CLP

8-IN  
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME0009L

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Matrix: (Soil/Water) Soil Level: (low/med) LOW

Concentration Units: ug/L

| Analyte   | Initial Sample Result (I)<br>C | Serial Dilution Result (S)<br>C | % Difference | Q | M   |
|-----------|--------------------------------|---------------------------------|--------------|---|-----|
| Aluminum  | 52917.50                       | 62010.00                        | 17           | E | P   |
| Antimony  | 60.00                          | U                               | 300.00       | U | P   |
| Arsenic   | 41.24                          |                                 | 46.03        | J | 12  |
| Barium    | 594.89                         |                                 | 706.78       |   | 19  |
| Beryllium | 0.31                           | J                               | 25.00        | U | 100 |
| Cadmium   | 2.50                           | J                               | 2.58         | J | 3   |
| Calcium   | 374900.00                      |                                 | 453267.50    |   | 21  |
| Chromium  | 101.25                         |                                 | 124.76       | J | 23  |
| Cobalt    | 60.21                          |                                 | 74.88        | J | 24  |
| Copper    | 78.18                          |                                 | 90.92        | J | 16  |
| Iron      | 99915.50                       |                                 | 121477.50    |   | 22  |
| Lead      | 96.86                          |                                 | 111.61       | J | 15  |
| Magnesium | 169585.00                      |                                 | 203432.50    |   | 20  |
| Manganese | 4430.60                        |                                 | 5435.50      |   | 23  |
| Nickel    | 129.20                         |                                 | 159.78       | J | 24  |
| Potassium | 8365.55                        |                                 | 9451.75      |   | 13  |
| Selenium  | 3.90                           | J                               | 175.00       | U | 100 |
| Silver    | 10.00                          | U                               | 50.00        | U | P   |
| Sodium    | 820.86                         | J                               | 946.95       |   | 15  |
| Thallium  | 25.00                          | U                               | 125.00       | U | P   |
| Vanadium  | 158.37                         |                                 | 189.69       | J | 20  |
| Zinc      | 1041.30                        |                                 | 1313.13      |   | 26  |

USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Instrument Type: P Instrument ID: ICAPP 6500 Date: 01/15/2009Preparation NP1Concentration Units (ug/L or mg/Kg): ug/L

| Analyte   | Wavelength /Mass | CRQL  | MDL   |
|-----------|------------------|-------|-------|
| Aluminum  | 396.10           | 200   | 17.7  |
| Antimony  | 206.80           | 60.0  | 2.2   |
| Arsenic   | 189.00           | 10.0  | 2.1   |
| Barium    | 455.40           | 200   | 0.80  |
| Beryllium | 313.10           | 5.0   | 0.12  |
| Cadmium   | 214.40           | 5.0   | 0.092 |
| Calcium   | 318.10           | 5000  | 62.5  |
| Chromium  | 267.70           | 10.0  | 2.6   |
| Cobalt    | 228.60           | 50.0  | 0.29  |
| Copper    | 324.70           | 25.0  | 0.73  |
| Iron      | 238.20           | 100.0 | 5.1   |
| Lead      | 220.30           | 10.0  | 2.0   |
| Magnesium | 279.00           | 5000  | 44.5  |
| Manganese | 257.60           | 15.0  | 0.56  |
| Nickel    | 231.60           | 40.0  | 1.39  |
| Potassium | 766.40           | 5000  | 40.1  |
| Selenium  | 196.00           | 35.0  | 2.9   |
| Silver    | 328.00           | 10.0  | 3.2   |
| Sodium    | 589.50           | 5000  | 20.0  |
| Thallium  | 190.80           | 25.0  | 1.2   |
| Vanadium  | 292.40           | 50.0  | 3.1   |
| Zinc      | 206.20           | 60.0  | 1.4   |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Instrument Type: P Instrument ID: ICAPP 6500 Date: 01/15/2009Preparation HS1Concentration Units (ug/L or mg/Kg): mg/Kg

| Analyte   | Wavelength /Mass | CRQL  | MDL   |
|-----------|------------------|-------|-------|
| Aluminum  | 396.10           | 20.0  | 3.9   |
| Antimony  | 206.80           | 6.00  | 0.21  |
| Arsenic   | 189.00           | 1.00  | 0.19  |
| Barium    | 455.40           | 20.0  | 0.068 |
| Beryllium | 313.10           | 0.500 | 0.016 |
| Cadmium   | 214.40           | 0.500 | 0.012 |
| Calcium   | 318.10           | 500   | 7.3   |
| Chromium  | 267.70           | 1.00  | 0.21  |
| Cobalt    | 228.60           | 5.00  | 0.020 |
| Copper    | 324.70           | 2.50  | 0.091 |
| Iron      | 238.20           | 10.0  | 0.59  |
| Lead      | 220.30           | 1.00  | 0.16  |
| Magnesium | 279.00           | 500   | 2.8   |
| Manganese | 257.60           | 1.50  | 0.061 |
| Nickel    | 231.60           | 4.00  | 0.067 |
| Potassium | 766.40           | 500   | 6.8   |
| Selenium  | 196.00           | 3.50  | 0.31  |
| Silver    | 328.00           | 1.00  | 0.45  |
| Sodium    | 589.50           | 500   | 4.6   |
| Thallium  | 190.80           | 2.50  | 0.16  |
| Vanadium  | 292.40           | 5.00  | 0.25  |
| Zinc      | 206.20           | 6.00  | 0.079 |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument Type: P Instrument ID: ICAPP 6500 Date: 01/15/2009

Preparation HS1

Concentration Units (ug/L or mg/Kg): ug/L

| Analyte   | Wavelength /Mass | CRQL | MDL  |
|-----------|------------------|------|------|
| Aluminum  | 396.10           | 200  | 39   |
| Antimony  | 206.80           | 60.0 | 2.1  |
| Arsenic   | 189.00           | 10.0 | 1.90 |
| Barium    | 455.40           | 200  | 0.68 |
| Beryllium | 313.10           | 5.0  | 0.16 |
| Cadmium   | 214.40           | 5.0  | 0.12 |
| Calcium   | 318.10           | 5000 | 73   |
| Chromium  | 267.70           | 10.0 | 2.10 |
| Cobalt    | 228.60           | 50.0 | 0.2  |
| Copper    | 324.70           | 25.0 | 0.91 |
| Iron      | 238.20           | 100  | 5.90 |
| Lead      | 220.30           | 10.0 | 1.6  |
| Magnesium | 279.00           | 5000 | 28   |
| Manganese | 257.60           | 15.0 | 0.61 |
| Nickel    | 231.60           | 40.0 | 0.67 |
| Potassium | 766.40           | 5000 | 68   |
| Selenium  | 196.00           | 35.0 | 3.1  |
| Silver    | 328.00           | 10.0 | 4.50 |
| Sodium    | 589.50           | 5000 | 46.0 |
| Thallium  | 190.80           | 25.0 | 1.6  |
| Vanadium  | .292.40          | 50.0 | 2.50 |
| Zinc      | 206.20           | 60.0 | 0.79 |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Instrument Type: CV Instrument ID: LM02 Date: 01/08/2009Preparation CS1Concentration Units (ug/L or mg/Kg): mg/Kg

| Analyte | Wavelength /Mass | CRQL  | MDL   |
|---------|------------------|-------|-------|
| Mercury | 257.00           | 0.100 | 0.026 |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002Instrument Type: AS Instrument ID: CN01 Date: 01/13/2009Preparation NP1Concentration Units (ug/L or mg/Kg): ug/L

| Analyte | Wavelength /Mass | CRQL | MDL  |
|---------|------------------|------|------|
| Cyanide | 578.00           | 125  | 0.72 |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW08064  
Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0002  
Instrument Type: AS Instrument ID: CN01 Date: 01/13/2009  
Preparation DS2  
Concentration Units (ug/L or mg/Kg): mg/Kg

| Analyte | Wavelength /Mass | CRQL | MDL  |
|---------|------------------|------|------|
| Cyanide | 578.00           | 2.50 | 0.15 |

Comments:

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USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG ME0002  
 Preparation HS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| LCSS01         | 12/05/09         | 1.00          | 100         |
| ME0002         | 12/05/09         | 1.00          | 100         |
| ME0003         | 12/05/09         | 1.00          | 100         |
| ME0004         | 12/05/09         | 1.00          | 100         |
| ME0005         | 12/05/09         | 1.00          | 100         |
| ME0006         | 12/05/09         | 1.00          | 100         |
| ME0007         | 12/05/09         | 1.00          | 100         |
| ME0008         | 12/05/09         | 1.00          | 100         |
| ME0009         | 12/05/09         | 1.00          | 100         |
| ME0009D        | 12/05/09         | 1.00          | 100         |
| ME0009S        | 12/05/09         | 1.00          | 100         |
| ME0010         | 12/05/09         | 1.00          | 100         |
| ME0011         | 12/05/09         | 1.00          | 100         |
| ME0012         | 12/05/09         | 1.00          | 100         |
| ME0013         | 12/05/09         | 1.00          | 100         |
| ME0014         | 12/05/09         | 1.00          | 100         |
| ME0015         | 12/05/09         | 1.00          | 100         |
| ME0016         | 12/05/09         | 1.00          | 100         |
| ME0017         | 12/05/09         | 1.00          | 100         |
| ME0018         | 12/05/09         | 1.00          | 100         |
| ME0019         | 12/05/09         | 1.00          | 100         |
| ME0020         | 12/05/09         | 1.00          | 100         |
| ME0021         | 12/05/09         | 1.00          | 100         |
| PBS01          | 12/05/09         | 1.00          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0002

Preparation CS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| CCB01          | 12/01/09         | 0.20          | 100         |
| CCB02          | 12/01/09         | 0.20          | 100         |
| CCB03          | 12/01/09         | 0.20          | 100         |
| CCB04          | 12/01/09         | 0.20          | 100         |
| CCV01          | 12/01/09         | 0.20          | 100         |
| CCV02          | 12/01/09         | 0.20          | 100         |
| CCV03          | 12/01/09         | 0.20          | 100         |
| CCV04          | 12/01/09         | 0.20          | 100         |
| CRI01          | 12/01/09         | 0.20          | 100         |
| CRI02          | 12/01/09         | 0.20          | 100         |
| CRI03          | 12/01/09         | 0.20          | 100         |
| ICB01          | 12/01/09         | 0.20          | 100         |
| ICV01          | 12/01/09         | 0.20          | 100         |
| LCSS01         | 12/01/09         | 0.20          | 100         |
| ME0002         | 12/01/09         | 0.20          | 100         |
| ME0003         | 12/01/09         | 0.20          | 100         |
| ME0004         | 12/01/09         | 0.20          | 100         |
| ME0005         | 12/01/09         | 0.20          | 100         |
| ME0006         | 12/01/09         | 0.20          | 100         |
| ME0007         | 12/01/09         | 0.20          | 100         |
| ME0008         | 12/01/09         | 0.20          | 100         |
| ME0009         | 12/01/09         | 0.20          | 100         |
| ME0009D        | 12/01/09         | 0.20          | 100         |
| ME0009S        | 12/01/09         | 0.20          | 100         |
| ME0010         | 12/01/09         | 0.20          | 100         |
| ME0011         | 12/01/09         | 0.20          | 100         |
| ME0012         | 12/01/09         | 0.20          | 100         |
| ME0013         | 12/01/09         | 0.20          | 100         |
| ME0014         | 12/01/09         | 0.20          | 100         |
| ME0015         | 12/01/09         | 0.20          | 100         |
| ME0016         | 12/01/09         | 0.20          | 100         |
| ME0017         | 12/01/09         | 0.20          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER

Case No.: 39260

NRAS No.:

SDG

ME0002

Preparation

CS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| ME0018         | 12/01/09         | 0.20          | 100         |
| ME0019         | 12/01/09         | 0.20          | 100         |
| ME0020         | 12/01/09         | 0.20          | 100         |
| ME0021         | 12/01/09         | 0.20          | 100         |
| PBS01          | 12/01/09         | 0.20          | 100         |
| S0             | 12/01/09         | 0.20          | 100         |
| S0.2           | 12/01/09         | 0.20          | 100         |
| S0.5           | 12/01/09         | 0.20          | 100         |
| S1             | 12/01/09         | 0.20          | 100         |
| S2             | 12/01/09         | 0.20          | 100         |
| S6             | 12/01/09         | 0.20          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOGLab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0002

Preparation DS2

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| ICV01          | 12/01/09         | 1.00          | 50          |
| LCSS01         | 12/01/09         | 1.00          | 50          |
| ME0002         | 12/01/09         | 1.00          | 50          |
| ME0003         | 12/01/09         | 1.00          | 50          |
| ME0004         | 12/01/09         | 1.00          | 50          |
| ME0005         | 12/01/09         | 1.00          | 50          |
| ME0006         | 12/01/09         | 1.00          | 50          |
| ME0007         | 12/01/09         | 1.00          | 50          |
| ME0008         | 12/01/09         | 1.00          | 50          |
| ME0009         | 12/01/09         | 1.00          | 50          |
| ME0009A        | 12/01/09         | 1.00          | 50          |
| ME0009D        | 12/01/09         | 1.00          | 50          |
| ME0009S        | 12/01/09         | 1.00          | 50          |
| ME0010         | 12/01/09         | 1.00          | 50          |
| ME0011         | 12/01/09         | 1.00          | 50          |
| ME0012         | 12/01/09         | 1.00          | 50          |
| ME0013         | 12/01/09         | 1.00          | 50          |
| ME0014         | 12/01/09         | 1.00          | 50          |
| ME0015         | 12/01/09         | 1.00          | 50          |
| ME0016         | 12/01/09         | 1.00          | 50          |
| ME0017         | 12/01/09         | 1.00          | 50          |
| ME0018         | 12/01/09         | 1.00          | 50          |
| ME0019         | 12/01/09         | 1.00          | 50          |
| ME0020         | 12/01/09         | 1.00          | 50          |
| ME0021         | 12/01/09         | 1.00          | 50          |
| MIDRANGE250    | 12/01/09         | 1.00          | 50          |
| PBS01          | 12/01/09         | 1.00          | 50          |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument ICAPP 6500 Analysis Method: P

Start Date: 12/06/2009 End Date: 12/10/2009

| EPA Sample NO. | D/F | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------|-----|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |     |       | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>O | C<br>R | C<br>U | F<br>E | P<br>B | M<br>B | M<br>G | H<br>N | N<br>G | I<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>X | Z<br>X | C<br>N |
| SO             | 1   | 15:21 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| S              | 1   | 15:24 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| S              | 1   | 15:27 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| S              | 1   | 15:30 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| S              | 1   | 15:34 |          |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ICV01          | 1   | 15:37 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICB01          | 1   | 15:40 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CRI01          | 1   | 15:44 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSA01         | 1   | 15:47 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSA01B01      | 1   | 15:50 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCV01          | 1   | 15:54 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCB01          | 1   | 15:57 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| PBS01          | 1   | 16:00 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| LCSS01         | 1   | 16:03 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0002         | 1   | 16:07 | X        | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0003         | 1   | 16:10 | X        | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0004         | 1   | 16:13 | X        | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0005         | 1   | 16:17 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0006         | 1   | 16:20 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0007         | 1   | 16:23 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0008         | 1   | 16:26 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0009         | 1   | 16:30 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCV02          | 1   | 16:33 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCB02          | 1   | 16:36 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ         | 1   | 16:40 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0009D        | 1   | 16:43 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0010         | 1   | 16:46 | X        | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0011         | 1   | 16:49 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0012         | 1   | 16:53 | X        | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0009L        | 5   | 16:56 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CRI02          | 1   | 16:59 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CRI03          | 1   | 17:02 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ICSA02         | 1   | 17:06 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSA02B02      | 1   | 17:09 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCV03          | 1   | 17:12 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCB03          | 1   | 17:16 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME0013         | 1   | 17:19 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument ICAPP 6500

Analysis Method: P

Start Date: 12/06/2009

End Date: 12/10/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F B | P B | M G | M N | H G | N I | K S | S E | A G | N A | T L | V X | Z X | C N |   |
| ME0014         | 1   | 17:22 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0015         | 1   | 17:25 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0016         | 1   | 17:29 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0017         | 1   | 17:32 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0018         | 1   | 17:35 | X        | X   | X   | X   | X   | X   |     | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0019         | 1   | 17:38 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0020         | 1   | 17:42 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0021         | 1   | 17:45 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0009A        | 1   | 17:48 | X        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| CCV04          | 1   | 17:51 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CCB04          | 1   | 17:55 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0002         | 4   | 17:58 |          |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0003         | 4   | 18:01 |          |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0004         | 4   | 18:04 |          |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0005         | 4   | 18:08 |          |     |     |     |     |     |     |     |     |     |     | X   | X   |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0006         | 5   | 18:11 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0010         | 3   | 18:14 |          |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| ME0012         | 4   | 18:17 |          |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| CRI04          | 1   | 18:21 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ICSA03         | 1   | 18:24 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ICSAB03        | 1   | 18:27 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CCV05          | 1   | 18:31 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CCB05          | 1   | 18:34 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ME0018         | 3   | 18:37 |          |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X |
| ME0002         | 3   | 18:40 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |   |
| ME0013         | 4   | 18:44 |          |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| CRI05          | 1   | 18:47 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CRI06          | 1   | 18:50 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| ICSA04         | 1   | 18:54 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| ICSAB04        | 1   | 18:57 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CCV06          | 1   | 19:00 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |
| CCB06          | 1   | 19:03 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |   |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG-No.: ME0002

Instrument ICAPP 6500

Analysis Method: P

Start Date: 12/10/2009

End Date: 12/10/2009

| EPA Sample No. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M G | M B | H N | N G | K I | S E | A G | N A | T L | V Z | Z N | C N |
| S0             | 1   | 12:13 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| S              | 1   | 12:17 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| S              | 1   | 12:20 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| S              | 1   | 12:23 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| S              | 1   | 12:27 |          |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ICV01          | 1   | 12:30 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICB01          | 1   | 12:33 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CRI01          | 1   | 12:36 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSA01         | 1   | 12:40 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSAB01        | 1   | 12:43 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCV01          | 1   | 12:46 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCB01          | 1   | 12:50 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ZZZZZZ         | 1   | 12:53 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ME0009A        | 1   | 12:56 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CRI02          | 1   | 12:59 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSA02         | 1   | 13:03 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSAB02        | 1   | 13:06 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCV02          | 1   | 13:09 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCB02          | 1   | 13:13 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ME0009S        | 1   | 13:16 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CRI03          | 1   | 13:19 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSA03         | 1   | 13:23 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| ICSAB03        | 1   | 13:26 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCV03          | 1   | 13:29 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |
| CCB03          | 1   | 13:32 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   |     |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument LM02 Analysis Method: CV

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |  |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|--|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V Z | N C |  |
| S0             | 1   | 11:26 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| S0.2           | 1   | 11:28 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| S0.5           | 1   | 11:29 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| S1             | 1   | 11:31 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| S2             | 1   | 11:34 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| S6             | 1   | 11:36 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ICVO1          | 1   | 11:38 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ICB01          | 1   | 11:40 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CRI01          | 1   | 11:42 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCV01          | 1   | 11:44 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCB01          | 1   | 11:46 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| PBS01          | 1   | 11:48 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| LCSS01         | 2   | 11:50 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0002         | 1   | 11:51 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0003         | 1   | 11:53 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0004         | 1   | 11:55 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0005         | 1   | 11:57 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0006         | 1   | 11:59 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0007         | 1   | 12:01 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0008         | 1   | 12:03 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0009         | 1   | 12:04 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCV02          | 1   | 12:06 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCB02          | 1   | 12:08 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0009D        | 1   | 12:10 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0009S        | 1   | 12:12 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0010         | 1   | 12:14 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0011         | 1   | 12:16 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0012         | 1   | 12:18 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0013         | 1   | 12:20 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0014         | 1   | 12:22 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0015         | 1   | 12:24 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CR102          | 1   | 12:26 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCV03          | 1   | 12:28 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| CCB03          | 1   | 12:30 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0016         | 1   | 12:32 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |
| ME0017         | 1   | 12:34 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |   |     |     |     |     |     |     |  |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument LM02 Analysis Method: CV

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|
|                |     |       | A L      | S B | A S | B A | B E | C D | C C | C O | C R | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V | Z N | C N |
| ME0018         | 1   | 12:36 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| ME0019         | 1   | 12:38 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| ME0020         | 1   | 12:39 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| ME0021         | 1   | 12:41 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| CRI03          | 1   | 12:44 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| CCV04          | 1   | 12:45 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |
| CCB04          | 1   | 12:47 |          |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |     |     |     |     |     |     |   |     |     |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument CN01 Analysis Method: AS

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |  |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|--|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M G | M N | H G | N I | K S | S E | A G | N A | T L | V | Z N | C N |  |
| S0             | 1   | 10:31 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S5             | 1   | 10:32 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S10            | 1   | 10:34 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S50            | 1   | 10:35 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S100           | 1   | 10:36 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S250           | 1   | 10:38 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S500           | 1   | 10:39 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ICV01          | 1   | 10:41 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ICB01          | 1   | 10:42 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CRI01          | 1   | 10:44 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCV01          | 1   | 10:45 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCB01          | 1   | 10:46 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| BASELINE       | 1   | 10:48 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| MIDRANGE       | 1   | 10:49 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| PBS01          | 1   | 10:51 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| LCSS01         | 1   | 10:52 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 10:53 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 10:55 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 10:56 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0005         | 1   | 10:58 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0006         | 1   | 10:59 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0007         | 1   | 11:01 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0008         | 1   | 11:02 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCV02          | 1   | 11:03 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| GCB02          | 1   | 11:05 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| BASELINE       | 1   | 11:06 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0009         | 1   | 11:08 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0009D        | 1   | 11:09 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0009S        | 1   | 11:10 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0010         | 1   | 11:12 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0011         | 1   | 11:13 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 11:15 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 11:16 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0014         | 1   | 11:18 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0015         | 1   | 11:19 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CRI02          | 1   | 11:20 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument CN01 Analysis Method: AS

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M B | M G | M N | H G | N T | K I | S E | A G | A N | T A | V L | Z N | C N |
| CCV03          | 1   | 11:22 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CCB03          | 1   | 11:23 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| BASELINE       | 1   | 11:25 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0016         | 1   | 11:26 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0017         | 1   | 11:27 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0018         | 1   | 11:29 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0019         | 1   | 11:30 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0020         | 1   | 11:32 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0021         | 1   | 11:33 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:35 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:36 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:37 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CCV04          | 1   | 11:39 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CCB04          | 1   | 11:40 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| BASELINE       | 1   | 11:42 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ME0009A        | 1   | 11:43 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:44 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:46 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:47 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:49 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| ZZZZZZ         | 1   | 11:50 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CR103          | 1   | 11:52 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CCV05          | 1   | 11:53 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| CCB05          | 1   | 11:54 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |
| BASELINE       | 1   | 11:56 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0002

Instrument CN01 Analysis Method: AS

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |  |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|--|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M G | M N | H G | N I | K S | S E | A G | N A | T L | V | Z N | C N |  |
| S0             | 1   | 15:25 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S5             | 1   | 15:27 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S10            | 1   | 15:28 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S50            | 1   | 15:30 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S100           | 1   | 15:31 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S250           | 1   | 15:32 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| S500           | 1   | 15:34 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ICV01          | 1   | 15:35 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ICB01          | 1   | 15:37 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CRI01          | 1   | 15:38 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCV01          | 1   | 15:40 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCB01          | 1   | 15:41 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| BASELINE       | 1   | 15:42 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| MIDRANGE       | 1   | 15:44 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0002         | 1   | 15:45 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 15:47 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0003         | 1   | 15:48 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 15:49 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0004         | 1   | 15:51 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ZZZZZZ         | 1   | 15:52 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0012         | 1   | 15:54 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCV02          | 1   | 15:55 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCB02          | 1   | 15:57 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| BASELINE       | 1   | 15:58 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| ME0013         | 1   | 15:59 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CRI02          | 1   | 16:01 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCV03          | 1   | 16:02 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| CCB03          | 1   | 16:04 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |
| BASELINE       | 1   | 16:05 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     | X   |  |

**ESAT Controlled Number:** ~~SEATE 17.01067 - pg~~ 312/10

DATE: March 12, 2010

IEPA  
**Attn: Mr. Mark Wagner**  
1001 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

SITE NAME: **Bautsch-Grey Mine (IL)**

| <u>Case</u> | <u>Lab</u> | <u>Samples</u> | <u>SDG</u> | <u>Matrix</u> |
|-------------|------------|----------------|------------|---------------|
| 39260       | Bonner     | 13             | ME0022     | soil          |

**Analysis:** metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

**Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.**

Data Received by: \_\_\_\_\_ Date: \_\_\_\_\_

**PROBLEMS:**

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

---

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Received by Data Management Coordinator, CRL for file.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FROM: **U.S. EPA - Region 5**  
Sylvia Griffin  
Central Regional Laboratory  
536 S. Clark, 10th Floor  
Chicago, IL 60605

Sent By: Pat Joyner  
Data Coordinator

Corresponded Document

# ESAT5 15.00430

Regional Transmittal Form

act

3-11-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 3/8/10

SUBJECT: Review of Data  
Received for review on 12/11/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)  
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Bautsch-Grey Mine (IL)

CASE NUMBER: 39260 SDG NUMBER: ME0022

Number and Type of Samples: 13 soils

Sample Numbers: ME0022-34

Laboratory: Bonner Hrs. for Review: 13.0 + 1.5 per sample

Following are our findings:

CC: Howard Pham  
Region 5 TOPO  
Mail Code: SRT-5J

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Thirteen (13) soil samples, numbered ME0022-34, were collected on November 17, 2009. The lab received the samples on November 20, 2009. Although the cooler containing samples ME0027-34 was outside the required temperature range, no sample results are qualified for this deficiency. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

No Chain of Custody seal numbers are recorded on Form DC-1 for either cooler. The Inorganic Traffic Report & Chain of Custody Record lists the same 2 seal numbers for both coolers. One seal is included with the airbill copy for samples ME0027-34. There is a notation with the other airbill copy indicating no custody seal was present; however, the Sample Receipt Form for that cooler (Case page number 158) indicates there was a seal present. No sample results are qualified for this inconsistent information.

The laboratory performed matrix spikes for aluminum and iron (not required by ILM05.4). The results were evaluated according to spike concentrations reported by the laboratory. The laboratory reported recoveries for the CRQL Check Standard for aluminum, calcium, iron, magnesium, potassium and sodium (not required by ILM05.4). No data are qualified for values outside the standard acceptance range for this standard.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 125 ug/L. The correct value should be reported as 50 ug/L.

It appears that the serial dilution may have been performed using a 4X dilution instead of the required 5X. 13 elements (all elements where the undiluted sample is greater than 50X the MDL) failed the serial dilution. If the dilution is recalculated using a 4X dilution factor instead of 5X, none of the elements fail serial dilution limits. Additionally, several of the samples which were run at dilutions appear to have been run at different dilutions than those which were reported. ME0023, ME0024, ME0025 and ME0029 are reported at 4X; the % differences match closer if 3X is used as the dilution factor. Results are reported as per laboratory dilution factors without further qualification.

No raw data for percent solids or preparation logs were provided. Data were presented on a computer generated spreadsheet. It is unclear whether the actual weight used for preparation of the samples was correct as listed.

## 1. HOLDING TIME:

The following inorganic samples did not meet primary holding time criteria.  
Hits are qualified "J-" and non-detects are qualified "UJ".

### Cyanide

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

## 2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

## 3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.  
Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

### Barium

ME0023, ME0024, ME0025, ME0032, ME0033, ME0034

### Beryllium

ME0022, ME0023, ME0024, ME0025, ME0026, ME0028, ME0029, ME0030,  
ME0031, ME0032, ME0033, ME0034

### Cadmium

ME0027, ME0028

### Cobalt

ME0022, ME0027, ME0028

### Sodium

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

### Cyanide

ME0029

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL).

The sample result is also greater than the MDL.  
Hits less than 5 times the blank are qualified "J-".

Mercury  
ME0023, ME0029, ME0033

#### 4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Cadmium  
ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Cobalt  
ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Nickel  
ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.

Hits are qualified "J-" and non-detects are qualified "UJ".

Antimony  
ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

No defects were found for the laboratory control sample.

#### 5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

#### 6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Cadmium

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Cobalt

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Iron

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Lead

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

Nickel

ME0022, ME0023, ME0024, ME0025, ME0026, ME0027, ME0028, ME0029,  
ME0030, ME0031, ME0032, ME0033, ME0034

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Vanadium

ME0023, ME0024, ME0025, ME0026, ME0032, ME0033, ME0034

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony

ME0022, ME0023, ME0024, ME0025, ME0026, ME0029, ME0030, ME0031,  
ME0032, ME0033, ME0034

Copper

ME0022

**7. SAMPLE RESULTS:**

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Case: 39260  
Site: Bautsch-Grey Mine

SDG: ME0022      Page 6 of 7  
Laboratory: Bonner

Chromium  
ME0034

Mercury  
ME0023, ME0029, ME0033.

Potassium  
ME0022, ME0025, ME0026, ME0027, ME0033, ME0034

Selenium  
ME0028, ME0029, ME0030

Silver  
ME0022

Vanadium  
ME0023, ME0024, ME0025, ME0026, ME0030, ME0032, ME0033, ME0034

All data, except those qualified above, are acceptable.

**CADRE ILM05.4 Data Qualifier Sheet**

**Qualifiers**      **Data Qualifier Definitions**

- U      The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J      The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+     The result is an estimated quantity, but the result may be biased high.
- J-     The result is an estimated quantity, but the result may be biased low.
- R      The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- UJ     The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

## Analytical Results (Qualified Data)

Page 1 of 3

Case #: 39260

SDG : ME0022

Site :

BAUTSCH-GREY MINE

Number of Soil Samples : 13

Lab. :

BONNER

Number of Water Samples : 0

Reviewer :

S. CONNET

Date :

3/8/2010

| Sample Number :     | ME0022     | ME0023     | ME0024     | ME0025     | ME0026     |      |        |      |        |    |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|--------|----|
| Sampling Location : | X214       | X215       | X216       | X217       | X218       |      |        |      |        |    |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |        |    |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |    |
| Date Sampled :      | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 |      |        |      |        |    |
| Time Sampled :      |            |            |            |            |            |      |        |      |        |    |
| % Solids :          | 65.3       | 83.9       | 76.5       | 79.3       | 79.9       |      |        |      |        |    |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |        |    |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag |        |    |
| ALUMINUM            | 6240       |            | 2010       |            | 2080       |      | 950    |      | 990    |    |
| ANTIMONY            | 9.2        | UJ         | 7.2        | UJ         | 7.8        | UJ   | 7.6    | UJ   | 7.5    | UJ |
| ARSENIC             | 5.5        |            | 47.5       |            | 38.6       |      | 43.5   |      | 49.7   |    |
| BARIUM              | 92.2       |            | 23.8       | U          | 26.1       | U    | 25.2   | U    | 25.7   |    |
| BERYLLIUM           | 0.77       | U          | 0.60       | U          | 0.65       | U    | 0.63   | U    | 0.63   | U  |
| CADMIUM             | 1.1        | J          | 19.6       | J          | 18.8       | J    | 15.7   | J    | 16.9   | J  |
| CALCIUM             | 29900      |            | 165000     |            | 136000     |      | 181000 |      | 152000 |    |
| CHROMIUM            | 10.1       |            | 4.4        |            | 4.4        |      | 2.5    |      | 2.4    |    |
| COBALT              | 7.7        | UJ         | 10.6       | J          | 8.3        | J    | 7.9    | J    | 8.5    | J  |
| COPPER              | 12.9       | J-         | 157        |            | 147        |      | 79.9   |      | 101    |    |
| IRON                | 20600      | J          | 50800      | J          | 43500      | J    | 48600  | J    | 55800  | J  |
| LEAD                | 68.4       | J          | 1890       | J          | 2010       | J    | 2020   | J    | 2970   | J  |
| MAGNESIUM           | 9520       |            | 66500      |            | 53300      |      | 73100  |      | 59500  |    |
| MANGANESE           | 2080       |            | 1160       |            | 903        |      | 1140   |      | 967    |    |
| MERCURY             | 0.15       | U          | 0.032      | J-         | 0.13       | U    | 0.13   | U    | 0.13   | U  |
| NICKEL              | 11.2       | J          | 29.3       | J          | 25.4       | J    | 23.1   | J    | 28.0   | J  |
| POTASSIUM           | 726        | J          | 962        |            | 1070       |      | 496    | J    | 486    | J  |
| SELENIUM            | 5.4        | U          | 4.2        | U          | 4.6        | U    | 4.4    | U    | 4.4    | U  |
| SILVER              | 0.72       | J          | 2.3        |            | 2.2        |      | 2.0    |      | 2.3    |    |
| SODIUM              | 766        | U          | 596        | U          | 654        | U    | 631    | U    | 628    | U  |
| THALLIUM            | 3.8        | U          | 3.0        | U          | 3.3        | U    | 3.2    | U    | 3.1    | U  |
| VANADIUM            | 15.8       |            | 4.6        | J+         | 4.6        | J+   | 2.9    | J+   | 3.1    | J+ |
| ZINC                | 1010       |            | 9790       |            | 9160       |      | 7610   |      | 9190   |    |
| CYANIDE             | 3.8        | U          | 3.0        | U          | 3.3        | U    | 3.2    | U    | 3.1    | U  |

## Analytical Results (Qualified Data)

Page 2 of 3

Case #: 39260 SDG : ME0022  
 Site : BAUTSCH-GREY MINE  
 Lab. : BONNER  
 Reviewer : S. CONNET  
 Date : 3/8/2010

| Sample Number :     | ME0027     | ME0028     | ME0029     | ME0030     | ME0031     |      |        |      |        |    |
|---------------------|------------|------------|------------|------------|------------|------|--------|------|--------|----|
| Sampling Location : | X101       | X102       | X103       | X104       | X105       |      |        |      |        |    |
| Matrix :            | Soil       | Soil       | Soil       | Soil       | Soil       |      |        |      |        |    |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |    |
| Date Sampled :      | 11/18/2009 | 11/18/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 |      |        |      |        |    |
| Time Sampled :      |            |            |            |            |            |      |        |      |        |    |
| %Solids :           | 77.7       | 48.1       | 64.6       | 69.4       | 68.9       |      |        |      |        |    |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        | 1.0        | 1.0        |      |        |      |        |    |
| ANALYTE             | Result     | Flag       | Result     | Flag       | Result     | Flag | Result | Flag |        |    |
| ALUMINUM            | 5820       |            | 9880       |            | 4970       |      | 2930   |      | 3390   |    |
| ANTIMONY            | 7.7        | UJ         | 12.5       | UJ         | 9.3        | UJ   | 8.6    | UJ   | 8.7    | UJ |
| ARSENIC             | 3.6        |            | 5.6        |            | 37.5       |      | 41.8   |      | 56.8   |    |
| BARIUM              | 87.9       |            | 120        |            | 46.2       |      | 35.8   |      | 41.6   |    |
| BERYLLIUM           | 0.64       | U          | 1.0        | U          | 0.77       | U    | 0.72   | U    | 0.73   | U  |
| CADMIUM             | 0.64       | UJ         | 1.0        | UJ         | 25.6       | J    | 20.8   | J    | 25.6   | J  |
| CALCIUM             | 3760       |            | 17700      |            | 98000      |      | 114000 |      | 167000 |    |
| CHROMIUM            | 8.6        |            | 16.7       |            | 9.0        |      | 5.7    |      | 6.5    |    |
| COBALT              | 6.4        | UJ         | 10.4       | UJ         | 11.5       | J    | 10.4   | J    | 12.2   | J  |
| COPPER              | 5.8        |            | 22.4       |            | 199        |      | 154    |      | 201    |    |
| IRON                | 8690       | J          | 15000      | J          | 41900      | J    | 47800  | J    | 61300  | J  |
| LEAD                | 35.2       | J          | 44.5       | J          | 2720       | J    | 2560   | J    | 3300   | J  |
| MAGNESIUM           | 1570       |            | 5600       |            | 40900      |      | 48600  |      | 62000  |    |
| MANGANESE           | 491        |            | 392        |            | 953        |      | 962    |      | 1180   |    |
| MERCURY             | 0.13       | U          | 0.21       | U          | 0.061      | J    | 0.14   | U    | 0.15   | U  |
| NICKEL              | 9.2        | J          | 20.4       | J          | 32.3       | J    | 29.8   | J    | 37.7   | J  |
| POTASSIUM           | 485        | J          | 2570       |            | 1750       |      | 1130   |      | 1410   |    |
| SELENIUM            | 4.5        | U          | 0.97       | J          | 0.65       | J    | 0.76   | J    | 5.1    | U  |
| SILVER              | 1.3        | U          | 2.1        | U          | 2.5        |      | 2.4    |      | 2.9    |    |
| SODIUM              | 644        | U          | 1040       | U          | 774        | U    | 720    | U    | 726    | U  |
| THALLIUM            | 3.2        | U          | 5.2        | U          | 3.9        | U    | 3.6    | U    | 3.6    | U  |
| VANADIUM            | 16.5       |            | 29.9       |            | 10.0       |      | 6.6    | J    | 7.5    |    |
| ZINC                | 135        |            | 255        |            | 12500      |      | 10700  |      | 12700  |    |
| CYANIDE             | 3.2        | U          | 5.2        | U          | 3.9        | U    | 3.6    | U    | 3.6    | U  |

## Analytical Results (Qualified Data)

Page 3 of 3

Case #: 39260 SDG : ME0022  
 Site : BAUTSCH-GREY MINE  
 Lab. : BONNER  
 Reviewer : S. CONNET  
 Date : 3/8/2010

| Sample Number :     | ME0032     | ME0033     | ME0034     |      |        |      |        |      |        |      |
|---------------------|------------|------------|------------|------|--------|------|--------|------|--------|------|
| Sampling Location : | X106       | X107       | X108       |      |        |      |        |      |        |      |
| Matrix :            | Soil       | Soil       | Soil       |      |        |      |        |      |        |      |
| Units :             | mg/Kg      | mg/Kg      | mg/Kg      |      |        |      |        |      |        |      |
| Date Sampled :      | 11/17/2009 | 11/17/2009 | 11/17/2009 |      |        |      |        |      |        |      |
| Time Sampled :      |            |            |            |      |        |      |        |      |        |      |
| % Solids :          | 77.7       | 82.2       | 77.8       |      |        |      |        |      |        |      |
| Dilution Factor :   | 1.0        | 1.0        | 1.0        |      |        |      |        |      |        |      |
| ANALYTE             | Result     | Flag       | Result     | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 1950       |            | 1190       |      | 519    |      |        |      |        |      |
| ANTIMONY            | 7.7        | UJ         | 7.3        | UJ   | 7.7    | UJ   |        |      |        |      |
| ARSENIC             | 38.3       |            | 42.0       |      | 91.2   |      |        |      |        |      |
| BARIUM              | 25.7       | U          | 24.3       | U    | 25.7   | U    |        |      |        |      |
| BERYLLIUM           | 0.64       | U          | 0.61       | U    | 0.64   | U    |        |      |        |      |
| CADMIUM             | 17.3       | J          | 14.2       | J    | 12.2   | J    |        |      |        |      |
| CALCIUM             | 129000     |            | 144000     |      | 142000 |      |        |      |        |      |
| CHROMIUM            | 4.1        |            | 2.8        |      | 1.1    |      |        |      |        |      |
| COBALT              | 8.5        | J          | 9.8        | J    | 10.6   | J    |        |      |        |      |
| COPPER              | 133        |            | 96.7       |      | 80.9   |      |        |      |        |      |
| IRON                | 45200      | J          | 46900      | J    | 118000 | J    |        |      |        |      |
| LEAD                | 2100       | J          | 1690       | J    | 2440   | J    |        |      |        |      |
| MAGNESIUM           | 51100      |            | 60600      |      | 62400  |      |        |      |        |      |
| MANGANESE           | 923        |            | 1040       |      | 995    |      |        |      |        |      |
| MERCURY             | 0.13       | U          | 0.038      | J-   | 0.13   | U    |        |      |        |      |
| NICKEL              | 24.8       | J          | 23.6       | J    | 44.7   | J    |        |      |        |      |
| POTASSIUM           | 915        |            | 546        | J    | 216    | J    |        |      |        |      |
| SELENIUM            | 4.5        | U          | 4.3        | U    | 4.5    | U    |        |      |        |      |
| SILVER              | 2.2        |            | 2.0        |      | 2.9    |      |        |      |        |      |
| SODIUM              | 644        | U          | 608        | U    | 643    | U    |        |      |        |      |
| THALLIUM            | 3.2        | U          | 3.0        | U    | 3.2    | U    |        |      |        |      |
| VANADIUM            | 4.3        | J+         | 3.5        | J+   | 2.6    | J+   |        |      |        |      |
| ZINC                | 8720       |            | 7650       |      | 4430   |      |        |      |        |      |
| CYANIDE             | 3.2        | U          | 3.0        | U    | 3.2    | U    |        |      |        |      |



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

Case No: 39260  
DAS No:  
SDG No: ME0026 L

|               |  |                         |                   |                                   |               |  |
|---------------|--|-------------------------|-------------------|-----------------------------------|---------------|--|
| Date Shipped: | 11/19/2009   | Chain of Custody Record |                   | Sampler Signature: <i>Lance R</i> |               |  |
| Carrier Name: | UPS  | Relinquished By         | (Date / Time)     | Received By                       | (Date / Time) |  |
| Airbill:      | 1z6215892210084177   | 1                       | MML 11/19/09 0900 | BR                                | 11-20-09 0930 |  |
| Shipped to:   | Bonner Analytical Testing Company<br>2703 Oak Grove Road<br>Hattiesburg MS 39402<br>(601) 264-2854 | 2                       |                   |                                   |               |  |
|               |  | 3                       |                   |                                   |               |  |
|               |  | 4                       |                   |                                   |               |  |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER            | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|----------------------------|------------|----------------------|-------------------------------|------------------|--------------------------|--------------------|--|
| ME0022               | Sediment/ Lance Range      | L/G        | ICP-AES (21)         | 5c105079 (Ice Only) (1)       | X214             | S: 11/17/2009 10:20      |                    | good   |
| ME0023               | Sediment/ Lance Range      | L/G        | ICP-AES (21)         | 5c105080 (Ice Only) (1)       | X215             | S: 11/17/2009 14:00      |                    |  |
| ME0024               | Sediment/ Lance Range      | L/G        | ICP-AES (21)         | 5c105081 (Ice Only) (1)       | X216             | S: 11/17/2009 14:15      |                    |  |
| ME0025               | Sediment/ Lance Range      | L/G        | ICP-AES (21)         | 5c105082 (Ice Only) (1)       | X217             | S: 11/17/2009 14:20      |                    |  |
| ME0026               | Sediment/ Lance Range      | L/G        | ICP-AES (21)         | 5c105083 (Ice Only) (1)       | X218             | S: 11/17/2009 14:20      |                    |  |
| ME0027               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105084 (Ice Only) (1)       | x101             | S: 11/18/2009 14:00      |                    |  |
| ME0028               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105085 (Ice Only) (1)       | x102             | S: 11/18/2009 14:40      |                    |  |
| ME0029               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105086 (Ice Only) (1)       | x103             | S: 11/17/2009 12:50      |                    |  |
| ME0030               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105087 (Ice Only) (1)       | x104             | S: 11/17/2009 13:20      |                    |  |
| ME0031               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105088 (Ice Only) (1)       | x105             | S: 11/17/2009 13:20      |                    | O  |

|   |   |   |  |  |
|---|---|---|--|--|
| Shipment for Case Complete? N<br>o            | Sample(s) to be used for laboratory QC: ME0029/ME0026 | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt:                         | Chain of Custody Seal Number: 28899/28898          |
| Analysis Key:<br>ICP-AES = HG, CN, ICP-METALS | Concentration: L = Low, M = Low/Medium, H = High      | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

TR Number: 5-554006491-111809-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

**LABORATORY COPY**



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

|                  |          |
|------------------|----------|
| Case No:         | 39260    |
| DAS No:          | ME0026   |
| SDC No:          |          |
| For Lab Use Only |          |
| Lab Contract No: | EPW08044 |
| Unit Price:      |          |
| Transfer To:     |          |
| Lab Contract No: |          |
| Unit Price:      |          |

|               |  |                         |                  |                                       |               |
|---------------|--|-------------------------|------------------|---------------------------------------|---------------|
| Date Shipped: | 11/19/2009   | Chain of Custody Record |                  | Sampler Signature: <i>[Signature]</i> |               |
| Carrier Name: | UPS  | Relinquished By         | (Date / Time)    | Received By                           | (Date / Time) |
| Airbill:      | 1z6215892210084177   | 1                       | MM 11/19/09 0900 | BR                                    | 11/20/09 0930 |
| Shipped to:   | Bonner Analytical Testing Company<br>2703 Oak Grove Road<br>Hattiesburg MS 39402<br>(601) 264-2854 | 2                       |                  |                                       |               |
|               |  | 3                       |                  |                                       |               |
|               |  | 4                       |                  |                                       |               |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER            | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|----------------------------|------------|----------------------|-------------------------------|------------------|--------------------------|--------------------|--|
| ME0032               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105089 (Ice Only) (1)       | x106             | S: 11/17/2009 13:30      |                    | good   |
| ME0033               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105090 (Ice Only) (1)       | x107             | S: 11/17/2009 13:45      |                    |  |
| ME0034               | Soil/Sediment/ Lance Range | L/G        | ICP-AES (21)         | 5c105091 (Ice Only) (1)       | x108             | S: 11/17/2009 13:50      |                    |  |

|  |  |   |  |  |
|--|--|---|--|--|
| Shipment for Case Complete? N              | Sample(s) to be used for laboratory QC: ME009 / ME0026 | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt:                         | Chain of Custody Seal Number: 28899 / 28898        |
| Analysis Key: ICP-AES = HG, CN, ICP METALS | Concentration: L = Low, M = Low/Medium, H = High       | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

TR Number: 5-554006491-111809-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

**LABORATORY COPY**

# Bonner Analytical Testing Company



2703 Oak Grove Road, Hattiesburg, MS 39402  
Phone: (601) 264-2854 Fax: (601) 268-7084

## SDG NARRATIVE:

SDG Number: ME0022

Case Number: 39260

Contract Number: EPW08064

### Sample Receipt:

On November 20, 2009, we received 13 soil samples in 2 coolers under UPS tracking numbers 1Z621 589 22 1008 4186 and 1Z621 589 22 1008 4177. Custody seals were present and intact. Cooler temps were determined to be 3°C and 8.5°C. Samples were received in good condition with no discrepancies.

### Metals

The analytical run began 12/04/2009 @ 1153 hrs. The matrix spike failed for Sb, Co, Cd and Ni; a post spike was analyzed at twice the CRQL for Sb and at twice the indigenous level for Co, Cd and Ni. ME0023, 24, 25, 26, 26S, 26D, 26L, 31, 32 and 33 were over the linear range for Ca and Zn; the samples were reanalyzed at appropriate dilutions. ME0034 was over the linear range for Ca and Fe; the sample was reanalyzed at an appropriate dilution.

### Mercury

The analytical run began 12/02/2009 @ 0923 hrs. S1 was not used in the calibration curve. LCSS01 was over the linear range; the LCSS was reanalyzed at a 2X dilution.

### Cyanide

The analytical run began 12/02/2009 @ 1359 hrs. There was a bubble in the line during the analysis of ME0025, 26, 26D, 26S, 27 and 28; the samples were reanalyzed.

### CSF

No Discrepancies

Sample Equation:

Lab ID 0911284-08 EPA Sample # ME 0029

Date & Time 12/04/2009 @ 1319

$$\text{Metals: } \frac{2.8187 \text{ } \mu\text{g/L}}{(\text{Analyte Be})} * \frac{(0.100 \text{ L})}{(1.00 \text{ g})} * \frac{100 \%}{64.6 \%} * \frac{1000 \text{ g}}{1 \text{ kg}} * \frac{1 \text{ mg}}{1000 \mu\text{g}} = 0.44 \frac{\text{mg}}{\text{Kg}}$$

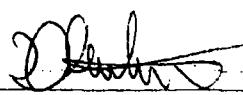
Date & Time 12/02/2009 @ 1039

$$\text{Hg: } \frac{0.0785 \text{ } \mu\text{g/L}}{(0.20 \text{ g})} * \frac{(0.100 \text{ L})}{64.6 \%} * \frac{100 \%}{1 \text{ kg}} * \frac{1000 \text{ g}}{1000 \mu\text{g}} = 0.061 \frac{\text{mg}}{\text{Kg}}$$

Date & Time 12/02/2009 @ 1445

$$\text{CN: } \frac{4.28 \text{ } \mu\text{g/L}}{(1.00 \text{ g})} * \frac{(0.050 \text{ L})}{64.6 \%} * \frac{100 \%}{1 \text{ kg}} * \frac{1000 \text{ g}}{1000 \mu\text{g}} = 0.33 \frac{\text{mg}}{\text{Kg}}$$

Authorized by



Daniel Antrim  
Document Control Officer

DEC 11 2009

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Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

SOW No.: ILM05.4

| EPA SAMPLE NO. | Lab Sample ID: |
|----------------|----------------|
| ME0022         | 0911284-01     |
| ME0023         | 0911284-02     |
| ME0024         | 0911284-03     |
| ME0025         | 0911284-04     |
| ME0026         | 0911284-05     |
| ME0026D        | 0911284-05DUP  |
| ME0026S        | 0911284-05MS   |
| ME0027         | 0911284-06     |
| ME0028         | 0911284-07     |
| ME0029         | 0911284-08     |
| ME0030         | 0911284-09     |
| ME0031         | 0911284-10     |
| ME0032         | 0911284-11     |
| ME0033         | 0911284-12     |
| ME0034         | 0911284-13     |

|   |          |                |               |
|---|----------|----------------|---------------|
| Were ICP-AES and ICP interelement corrections applied?                        | (Yes/No) | ICP-AES<br>Yes | ICP-MS<br>Yes |
| Were ICP-AES and ICP background corrections applied?                          | (Yes/No) | Yes            | Yes           |
| If yes, were raw data generated before application of background corrections? | (Yes/No) | No             | No            |

Comments:

As, Cd, Co, Fe, Pb, Ni were flagged as "E" estimated due to interferences occurring during the analysis of the Serial Dilution.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA), has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Chris Name: Brandon G. Beck For Chris Bonner  
Date: 12/10/09 Title: President

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ILM05.4

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1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0022

Lab Name: Bonner Analytical Testing Contract: EPW08064.  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-01  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 65.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 6240          |   |     | P  |
| 7440-36-0 | Antimony  | 9.2           | U | N   | P  |
| 7440-38-2 | Arsenic   | 5.5           |   | E   | P  |
| 7440-39-3 | Barium    | 92.2          |   |     | P  |
| 7440-41-7 | Beryllium | 0.068         | J |     | P  |
| 7440-43-9 | Cadmium   | 1.1           |   | N E | P  |
| 7440-70-2 | Calcium   | 29900         |   |     | P  |
| 7440-47-3 | Chromium  | 10.1          |   |     | P  |
| 7440-48-4 | Cobalt    | 6.1           | J | N E | P  |
| 7440-50-8 | Copper    | 12.9          |   |     | P  |
| 7439-89-6 | Iron      | 20600         |   | E   | P  |
| 7439-92-1 | Lead      | 66.4          |   | E   | P  |
| 7439-95-4 | Magnesium | 9520          |   |     | P  |
| 7439-96-5 | Manganese | 2080          |   |     | P  |
| 7439-97-6 | Mercury   | 0.15          | U |     | CV |
| 7440-02-0 | Nickel    | 11.2          |   | N E | P  |
| 7440-09-7 | Potassium | 726           | J |     | P  |
| 7782-49-2 | Selenium  | 5.4           | U |     | P  |
| 7440-22-4 | Silver    | 0.72          | J |     | P  |
| 7440-23-5 | Sodium    | 56.0          | J |     | P  |
| 7440-28-0 | Thallium  | 3.8           | U |     | P  |
| 7440-62-2 | Vanadium  | 15.8          |   |     | P  |
| 7440-66-6 | Zinc      | 1010          |   |     | P  |
| 57-12-5   | Cyanide   | 3.8           | U |     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0023

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-02  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 83.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 2010          |   |     | P  |
| 7440-36-0 | Antimony  | 7.2           | U | N   | P  |
| 7440-38-2 | Arsenic   | 47.5          |   | E   | P  |
| 7440-39-3 | Barium    | 23.7          | J |     | P  |
| 7440-41-7 | Beryllium | 0.30          | J |     | P  |
| 7440-43-9 | Cadmium   | 19.6          |   | N E | P  |
| 7440-70-2 | Calcium   | 165000        |   | D   | P  |
| 7440-47-3 | Chromium  | 4.4           |   |     | P  |
| 7440-48-4 | Cobalt    | 10.6          |   | N E | P  |
| 7440-50-8 | Copper    | 157           |   |     | P  |
| 7439-89-6 | Iron      | 50800         |   | E   | P  |
| 7439-92-1 | Lead      | 1890          |   | E   | P  |
| 7439-95-4 | Magnesium | 66500         |   |     | P  |
| 7439-96-5 | Manganese | 1160          |   |     | P  |
| 7439-97-6 | Mercury   | 0.032         | J |     | CV |
| 7440-02-0 | Nickel    | 29.3          |   | N E | P  |
| 7440-09-7 | Potassium | 962           |   |     | P  |
| 7782-49-2 | Selenium  | 4.2           | U |     | P  |
| 7440-22-4 | Silver    | 2.3           |   |     | P  |
| 7440-23-5 | Sodium    | 134           | J |     | P  |
| 7440-28-0 | Thallium  | 3.0           | U |     | P  |
| 7440-62-2 | Vanadium  | 4.6           | J |     | P  |
| 7440-66-6 | Zinc      | 9790          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.0           | U |     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0024

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-03  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 76.5

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 2080          |   |     | P  |
| 7440-36-0 | Antimony  | 7.8           | U | N   | P  |
| 7440-38-2 | Arsenic   | 38.6          |   | E   | P  |
| 7440-39-3 | Barium    | 22.0          | J |     | P  |
| 7440-41-7 | Beryllium | 0.30          | J |     | P  |
| 7440-43-9 | Cadmium   | 18.8          |   | N E | P  |
| 7440-70-2 | Calcium   | 136000        |   | D   | P  |
| 7440-47-3 | Chromium  | 4.4           |   |     | P  |
| 7440-48-4 | Cobalt    | 8.3           |   | N E | P  |
| 7440-50-8 | Copper    | 147           |   |     | P  |
| 7439-89-6 | Iron      | 43500         |   | E   | P  |
| 7439-92-1 | Lead      | 2010          |   | E   | P  |
| 7439-95-4 | Magnesium | 53300         |   |     | P  |
| 7439-96-5 | Manganese | 903           |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 25.4          |   | N E | P  |
| 7440-09-7 | Potassium | 1070          |   |     | P  |
| 7782-49-2 | Selenium  | 4.6           | U |     | P  |
| 7440-22-4 | Silver    | 2.2           |   |     | P  |
| 7440-23-5 | Sodium    | 115           | J |     | P  |
| 7440-28-0 | Thallium  | 3.3           | U |     | P  |
| 7440-62-2 | Vanadium  | 4.6           | J |     | P  |
| 7440-66-6 | Zinc      | 9160          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.3           | U |     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0025

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-04  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 79.3

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight):  $\text{mg/Kg}$ 

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 950           |   |     | P  |
| 7440-36-0 | Antimony  | 7.6           | U | N   | P  |
| 7440-38-2 | Arsenic   | 43.5          |   | E   | P  |
| 7440-39-3 | Barium    | 18.8          | J |     | P  |
| 7440-41-7 | Beryllium | 0.15          | J |     | P  |
| 7440-43-9 | Cadmium   | 15.7          |   | N E | P  |
| 7440-70-2 | Calcium   | 181000        |   | D   | P  |
| 7440-47-3 | Chromium  | 2.5           |   |     | P  |
| 7440-48-4 | Cobalt    | 7.9           |   | N E | P  |
| 7440-50-8 | Copper    | 79.9          |   |     | P  |
| 7439-89-6 | Iron      | 48600         |   | E   | P  |
| 7439-92-1 | Lead      | 2020          |   | E   | P  |
| 7439-95-4 | Magnesium | 73100         |   |     | P  |
| 7439-96-5 | Manganese | 1140          |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 23.1          |   | N E | P  |
| 7440-09-7 | Potassium | 496           | J |     | P  |
| 7782-49-2 | Selenium  | 4.4           | U |     | P  |
| 7440-22-4 | Silver    | 2.0           |   |     | P  |
| 7440-23-5 | Sodium    | 139           | J |     | P  |
| 7440-28-0 | Thallium  | 3.2           | U |     | P  |
| 7440-62-2 | Vanadium  | 2.9           | J |     | P  |
| 7440-66-6 | Zinc      | 7610          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.2           | U |     | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0026

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-05  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 990           |   |     | P  |
| 7440-36-0 | Antimony  | 7.5           | U | N   | P  |
| 7440-38-2 | Arsenic   | 49.7          |   | E   | P  |
| 7440-39-3 | Barium    | 25.7          |   |     | P  |
| 7440-41-7 | Beryllium | 0.15          | J |     | P  |
| 7440-43-9 | Cadmium   | 16.9          |   | N E | P  |
| 7440-70-2 | Calcium   | 152000        |   | D   | P  |
| 7440-47-3 | Chromium  | 2.4           |   |     | P  |
| 7440-48-4 | Cobalt    | 8.5           |   | N E | P  |
| 7440-50-8 | Copper    | 101           |   |     | P  |
| 7439-89-6 | Iron      | 55800         |   | E   | P  |
| 7439-92-1 | Lead      | 2970          |   | E   | P  |
| 7439-95-4 | Magnesium | 59500         |   |     | P  |
| 7439-96-5 | Manganese | 967           |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 28.0          |   | N E | P  |
| 7440-09-7 | Potassium | 486           | J |     | P  |
| 7782-49-2 | Selenium  | 4.4           | U |     | P  |
| 7440-22-4 | Silver    | 2.3           |   |     | P  |
| 7440-23-5 | Sodium    | 95.1          | J |     | P  |
| 7440-28-0 | Thallium  | 3.1           | U |     | P  |
| 7440-62-2 | Vanadium  | 3.1           | J |     | P  |
| 7440-66-6 | Zinc      | 9190          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.1           | U |     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0027

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: MEC0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-06  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 77.7

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 5820          |   |     | P  |
| 7440-36-0 | Antimony  | 7.7           | U | N   | P  |
| 7440-38-2 | Arsenic   | 3.6           |   | E   | P  |
| 7440-39-3 | Barium    | 87.9          |   |     | P  |
| 7440-41-7 | Beryllium | 0.64          | U |     | P  |
| 7440-43-9 | Cadmium   | 0.32          | J | N E | P  |
| 7440-70-2 | Calcium   | 3760          |   |     | P  |
| 7440-47-3 | Chromium  | 8.6           |   |     | P  |
| 7440-48-4 | Cobalt    | 5.3           | J | N E | P  |
| 7440-50-8 | Copper    | 5.8           |   |     | P  |
| 7439-89-6 | Iron      | 8690          |   | E   | P  |
| 7439-92-1 | Lead      | 35.2          |   | E   | P  |
| 7439-95-4 | Magnesium | 1570          |   |     | P  |
| 7439-96-5 | Manganese | 491           |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 9.2           |   | N E | P  |
| 7440-09-7 | Potassium | 485           | J |     | P  |
| 7782-49-2 | Selenium  | 4.5           | U |     | P  |
| 7440-22-4 | Silver    | 1.3           | U |     | P  |
| 7440-23-5 | Sodium    | 16.1          | J |     | P  |
| 7440-28-0 | Thallium  | 3.2           | U |     | P  |
| 7440-62-2 | Vanadium  | 16.5          |   |     | P  |
| 7440-66-6 | Zinc      | 135           |   |     | P  |
| 57-12-5   | Cyanide   | 3.2           | U |     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0028

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-07  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 48.1

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 9880          |   |     | P  |
| 7440-36-0 | Antimony  | 12.5          | U | N   | P  |
| 7440-38-2 | Arsenic   | 5.6           |   | E   | P  |
| 7440-39-3 | Barium    | 120           |   |     | P  |
| 7440-41-7 | Beryllium | 0.25          | J |     | P  |
| 7440-43-9 | Cadmium   | 0.53          | J | N E | P  |
| 7440-70-2 | Calcium   | 17700         |   |     | P  |
| 7440-47-3 | Chromium  | 16.7          |   |     | P  |
| 7440-48-4 | Cobalt    | 6.5           | J | N E | P  |
| 7440-50-8 | Copper    | 22.4          |   |     | P  |
| 7439-89-6 | Iron      | 15000         |   | E   | P  |
| 7439-92-1 | Lead      | 44.5          |   | E   | P  |
| 7439-95-4 | Magnesium | 5600          |   |     | P  |
| 7439-96-5 | Manganese | 392           |   |     | P  |
| 7439-97-6 | Mercury   | 0.21          | U |     | CV |
| 7440-02-0 | Nickel    | 20.4          |   | N E | P  |
| 7440-09-7 | Potassium | 2570          |   |     | P  |
| 7782-49-2 | Selenium  | 0.97          | J |     | P  |
| 7440-22-4 | Silver    | 2.1           | U |     | P  |
| 7440-23-5 | Sodium    | 29.9          | J |     | P  |
| 7440-28-0 | Thallium  | 5.2           | U |     | P  |
| 7440-62-2 | Vanadium  | 29.9          |   |     | P  |
| 7440-66-6 | Zinc      | 255           |   |     | P  |
| 57-12-5   | Cyanide   | 5.2           | U |     | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0029

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: \_\_\_\_\_ SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-08  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 64.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 4970          |   |     | P  |
| 7440-36-0 | Antimony  | 9.3           | U | N   | P  |
| 7440-38-2 | Arsenic   | 37.5          |   | E   | P  |
| 7440-39-3 | Barium    | 46.2          |   |     | P  |
| 7440-41-7 | Beryllium | 0.44          | J |     | P  |
| 7440-43-9 | Cadmium   | 25.6          |   | N E | P  |
| 7440-70-2 | Calcium   | 98000         |   |     | P  |
| 7440-47-3 | Chromium  | 9.0           |   |     | P  |
| 7440-48-4 | Cobalt    | 11.5          |   | N E | P  |
| 7440-50-8 | Copper    | 199           |   |     | P  |
| 7439-89-6 | Iron      | 41900         |   | E   | P  |
| 7439-92-1 | Lead      | 2720          |   | E   | P  |
| 7439-95-4 | Magnesium | 40900         |   |     | P  |
| 7439-96-5 | Manganese | 953           |   |     | P  |
| 7439-97-6 | Mercury   | 0.061         | J |     | CV |
| 7440-02-0 | Nickel    | 32.3          |   | N E | P  |
| 7440-09-7 | Potassium | 1750          |   |     | P  |
| 7782-49-2 | Selenium  | 0.65          | J |     | P  |
| 7440-22-4 | Silver    | 2.5           |   |     | P  |
| 7440-23-5 | Sodium    | 88.1          | J |     | P  |
| 7440-28-0 | Thallium  | 3.9           | U |     | P  |
| 7440-62-2 | Vanadium  | 10.0          |   |     | P  |
| 7440-66-6 | Zinc      | 12500         |   | D   | P  |
| 57-12-5   | Cyanide   | 0.33          | J |     | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: COLORLESS Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0030

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-09  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 69.4

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 2930          |   |     | P  |
| 7440-36-0 | Antimony  | 8.6           | U | N   | P  |
| 7440-38-2 | Arsenic   | 41.8          |   | E   | P  |
| 7440-39-3 | Barium    | 35.8          |   |     | P  |
| 7440-41-7 | Beryllium | 0.28          | J |     | P  |
| 7440-43-9 | Cadmium   | 20.8          |   | N E | P  |
| 7440-70-2 | Calcium   | 114000        |   |     | P  |
| 7440-47-3 | Chromium  | 5.7           |   |     | P  |
| 7440-48-4 | Cobalt    | 10.4          |   | N E | P  |
| 7440-50-8 | Copper    | 154           |   |     | P  |
| 7439-89-6 | Iron      | 47800         |   | E   | P  |
| 7439-92-1 | Lead      | 2560          |   | E   | P  |
| 7439-95-4 | Magnesium | 48700         |   |     | P  |
| 7439-96-5 | Manganese | 962           |   |     | P  |
| 7439-97-6 | Mercury   | 0.14          | U |     | CV |
| 7440-02-0 | Nickel    | 29.8          |   | N E | P  |
| 7440-09-7 | Potassium | 1130          |   |     | P  |
| 7782-49-2 | Selenium  | 0.76          | J |     | P  |
| 7440-22-4 | Silver    | 2.4           |   |     | P  |
| 7440-23-5 | Sodium    | 95.7          | J |     | P  |
| 7440-28-0 | Thallium  | 3.6           | U |     | P  |
| 7440-62-2 | Vanadium  | 6.6           | J |     | P  |
| 7440-66-6 | Zinc      | 10700         |   | D   | P  |
| 57-12-5   | Cyanide   | 3.6           | U |     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA -- CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0031

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-10  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 68.9

Concentration Units ( $\mu\text{g/L}$  or  $\text{mg/kg}$  dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 3390          |   |     | P  |
| 7440-36-0 | Antimony  | 8.7           | C | N   | P  |
| 7440-38-2 | Arsenic   | 56.8          |   | E   | P  |
| 7440-39-3 | Barium    | 41.6          |   |     | P  |
| 7440-41-7 | Beryllium | 0.36          | J |     | P  |
| 7440-43-9 | Cadmium   | 25.6          |   | N E | P  |
| 7440-70-2 | Calcium   | 167000        |   | D   | P  |
| 7440-47-3 | Chromium  | 6.5           |   |     | P  |
| 7440-48-4 | Cobalt    | 12.2          |   | N E | P  |
| 7440-50-8 | Copper    | 201           |   |     | P  |
| 7439-89-6 | Iron      | 61300         |   | E   | P  |
| 7439-92-1 | Lead      | 3300          |   | E   | P  |
| 7439-95-4 | Magnesium | 62000         |   |     | P  |
| 7439-96-5 | Manganese | 1180          |   |     | P  |
| 7439-97-6 | Mercury   | 0.15          | U |     | CV |
| 7440-02-0 | Nickel    | 37.7          |   | N E | P  |
| 7440-09-7 | Potassium | 1410          |   |     | P  |
| 7782-49-2 | Selenium  | 5.1           | U |     | P  |
| 7440-22-4 | Silver    | 2.9           |   |     | P  |
| 7440-23-5 | Sodium    | 124           | J |     | P  |
| 7440-28-0 | Thallium  | 3.6           | U |     | P  |
| 7440-62-2 | Vanadium  | 7.5           |   |     | P  |
| 7440-66-6 | Zinc      | 12700         |   | D   | P  |
| 57-12-5   | Cyanide   | 3.6           | U |     | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0032

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-11  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 77.7

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 1950          |   |     | P  |
| 7440-36-0 | Antimony  | 7.7           | U | N   | P  |
| 7440-38-2 | Arsenic   | 38.3          |   | E   | P  |
| 7440-39-3 | Barium    | 23.9          | J | .   | P  |
| 7440-41-7 | Beryllium | 0.22          | J |     | P  |
| 7440-43-9 | Cadmium   | 17.3          |   | N E | P  |
| 7440-70-2 | Calcium   | 129000        |   | D.  | P  |
| 7440-47-3 | Chromium  | 4.1           |   |     | P  |
| 7440-48-4 | Cobalt    | 8.5           |   | N E | P  |
| 7440-50-8 | Copper    | 133           |   | .   | P  |
| 7439-89-6 | Iron      | 45200         |   | E   | P  |
| 7439-92-1 | Lead      | 2100          |   | E.  | P  |
| 7439-95-4 | Magnesium | 51100         |   |     | P  |
| 7439-96-5 | Manganese | 923           |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 24.8          |   | N E | P  |
| 7440-09-7 | Potassium | 915           |   |     | P  |
| 7782-49-2 | Selenium  | 4.5           | U |     | P  |
| 7440-22-4 | Silver    | 2.2           |   |     | P  |
| 7440-23-5 | Sodium    | 87.4          | J |     | P  |
| 7440-28-0 | Thallium  | 3.2           | U |     | P  |
| 7440-62-2 | Vanadium  | 4.3           | J |     | P  |
| 7440-66-6 | Zinc      | 8720          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.2           | U |     | AS |

Color Before: BROWN Clarity Before:  Texture: MEDIUMColor After: COLORLESS Clarity After:  Artifacts: 

Comments:

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USEPA - CLP

IA-IN  
INORGANIC ANALYSIS DATA SHEETEPA SAMPLE NO.  
ME0033

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022  
 Matrix: (Soil/Water) SOIL Lab Sample ID: 0911284-12  
 Level: (low/med) LOW Date Received: 11/20/2009  
 % Solids 82.2

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 1190          |   |     | P  |
| 7440-36-0 | Antimony  | 7.3           | U | N   | P  |
| 7440-38-2 | Arsenic   | 42.0          |   | E   | P  |
| 7440-39-3 | Barium    | 17.5          | J | .   | P  |
| 7440-41-7 | Beryllium | 0.16          | J |     | P  |
| 7440-43-9 | Cadmium   | 14.2          |   | N E | P  |
| 7440-70-2 | Calcium   | 144000        |   | D   | P  |
| 7440-47-3 | Chromium  | 2.8           |   |     | P  |
| 7440-48-4 | Cobalt    | 9.8           |   | N E | P  |
| 7440-50-8 | Copper    | 96.7          |   |     | P  |
| 7439-89-6 | Iron      | 46900         |   | E   | P  |
| 7439-92-1 | Lead      | 1690          |   | E   | P  |
| 7439-95-4 | Magnesium | 60600         |   |     | P  |
| 7439-96-5 | Manganese | 1040          |   |     | P  |
| 7439-97-6 | Mercury   | 0.038         | J |     | CV |
| 7440-02-0 | Nickel    | 23.6          |   | N E | P  |
| 7440-09-7 | Potassium | 546           | J |     | P  |
| 7782-49-2 | Selenium  | 4.3           | U |     | P  |
| 7440-22-4 | Silver    | 2.0           |   |     | P  |
| 7440-23-5 | Sodium    | 120           | J |     | P  |
| 7440-28-0 | Thallium  | 3.0           | U |     | P  |
| 7440-62-2 | Vanadium  | 3.5           | J |     | P  |
| 7440-66-6 | Zinc      | 7650          |   | D   | P  |
| 57-12-5   | Cyanide   | 3.0           | U |     | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA ~ CLP

1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME0034

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) SOIL

Lab Sample ID: 0911284-13

Level: (low/med) LOW

Date Received: 11/20/2009

% Solids 77.8

Concentration Units (ug/L or mg/kg dry weight):

mg/Kg

| CAS NO.   | Analyte   | Concentration | C | Q   | M  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 519           |   |     | P  |
| 7440-36-0 | Antimony  | 7.7           | U | N   | P  |
| 7440-38-2 | Arsenic   | 91.2          |   | E   | P  |
| 7440-39-3 | Barium    | 14.6          | J |     | P  |
| 7440-41-7 | Beryllium | 0.12          | J |     | P  |
| 7440-43-9 | Cadmium   | 12.2          |   | N E | P  |
| 7440-70-2 | Calcium   | 142000        |   | D   | P  |
| 7440-47-3 | Chromium  | 1.1           | J |     | P  |
| 7440-48-4 | Cobalt    | 10.6          |   | N E | P  |
| 7440-50-8 | Copper    | 80.9          |   |     | P  |
| 7439-89-6 | Iron      | 118000        |   | D E | P  |
| 7439-92-1 | Lead      | 2440          |   | E   | P  |
| 7439-95-4 | Magnesium | 62400         |   |     | P  |
| 7439-96-5 | Manganese | 995           |   |     | P  |
| 7439-97-6 | Mercury   | 0.13          | U |     | CV |
| 7440-02-0 | Nickel    | 44.7          |   | N E | P  |
| 7440-09-7 | Potassium | 216           | J |     | P  |
| 7782-49-2 | Selenium  | 4.5           | U |     | P  |
| 7440-22-4 | Silver    | 2.9           |   |     | P  |
| 7440-23-5 | Sodium    | 118           | J |     | P  |
| 7440-28-0 | Thallium  | 3.2           | U |     | P  |
| 7440-62-2 | Vanadium  | 2.6           | J |     | P  |
| 7440-66-6 | Zinc      | 4430          |   |     | P  |
| 57-12-5   | Cyanide   | 3.2           | U |     | AS |

Color Before: BROWN Clarity Before: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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USEPA - CLP

3-IN  
BLANKS

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0022

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte   | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |           |   |           |   | Preparation Blank |   |   |  |
|-----------|----------------------------------|---|-------------------------------------|---|-----------|---|-----------|---|-------------------|---|---|--|
|           |                                  | C | 1                                   | C | 2         | C | 3         | C |                   | C | M |  |
| Aluminum  | 200.000                          | U | 200.000                             | U | 39.893    | J | 41.539    | J | 20.000            | U | P |  |
| Antimony  | 60.000                           | U | 60.000                              | U | 2.997     | J | 2.573     | J | 6.000             | U | P |  |
| Arsenic   | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Barium    | 200.000                          | U | 200.000                             | U | 8.519     | J | 8.794     | J | 20.000            | U | P |  |
| Beryllium | 5.000                            | U | 5.000                               | U | 0.173     | J | 0.449     | J | 0.500             | U | P |  |
| Cadmium   | 5.000                            | U | 5.000                               | U | 0.989     | J | 1.009     | J | 0.500             | U | P |  |
| Calcium   | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | -10.824           | J | P |  |
| Chromium  | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Cobalt    | 50.000                           | U | 50.000                              | U | 2.125     | J | 2.183     | J | 5.000             | U | P |  |
| Copper    | 25.000                           | U | 25.000                              | U | 1.447     | J | 1.201     | J | 2.500             | U | P |  |
| Iron      | 100.000                          | U | 100.000                             | U | 17.019    | J | 22.907    | J | -1.452            | J | P |  |
| Lead      | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | -0.340            | J | P |  |
| Magnesium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | -5.992            | J | P |  |
| Manganese | 15.000                           | U | 15.000                              | U | 3.024     | J | 2.932     | J | -0.115            | J | P |  |
| Nickel    | 40.000                           | U | 40.000                              | U | 1.983     | J | 2.068     | J | -0.092            | J | P |  |
| Potassium | 5,000.000                        | U | 5,000.000                           | U | 5,000.000 | U | 5,000.000 | U | 500.000           | U | P |  |
| Selenium  | 35.000                           | U | 35.000                              | U | 35.000    | U | 35.000    | U | 3.500             | U | P |  |
| Silver    | 10.000                           | U | 10.000                              | U | 10.000    | U | 10.000    | U | 1.000             | U | P |  |
| Sodium    | 5,000.000                        | U | 5,000.000                           | U | 198.830   | J | 183.450   | J | 500.000           | U | P |  |
| Thallium  | 25.000                           | U | 25.000                              | U | 1.628     | J | 25.000    | U | -0.266            | J | P |  |
| Vanadium  | 50.000                           | U | 50.000                              | U | 50.000    | U | 50.000    | U | 5.000             | U | P |  |
| Zinc      | 60.000                           | U | 60.000                              | U | 60.000    | U | 60.000    | U | -0.508            | J | P |  |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical TestingContract: EPW08064Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0022Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte   | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |           |   |   |   | Preparation Blank |   |
|-----------|----------------------------------|---|-------------------------------------|---|-----------|---|---|---|-------------------|---|
|           |                                  | C | 1                                   | C | 2         | C | 3 | C | C                 | M |
| Aluminum  |                                  |   | 22.249                              | J | 200.000   | U |   |   |                   | P |
| Antimony  |                                  |   | 2.476                               | J | 60.000    | U |   |   |                   | P |
| Arsenic   |                                  |   | 10.000                              | U | 10.000    | U |   |   |                   | P |
| Barium    |                                  |   | 4.461                               | J | 0.991     | J |   |   |                   | P |
| Beryllium |                                  |   | 0.235                               | J | 5.000     | U |   |   |                   | P |
| Cadmium   |                                  |   | 0.526                               | J | 0.173     | J |   |   |                   | P |
| Calcium   |                                  |   | -64.876                             | J | 86.305    | J |   |   |                   | P |
| Chromium  |                                  |   | 10.000                              | U | 10.000    | U |   |   |                   | P |
| Cobalt    |                                  |   | 1.135                               | J | 50.000    | U |   |   |                   | P |
| Copper    |                                  |   | 25.000                              | U | 25.000    | U |   |   |                   | P |
| Iron      |                                  |   | 5.412                               | J | 21.262    | J |   |   |                   | P |
| Lead      |                                  |   | 10.000                              | U | 10.000    | U |   |   |                   | P |
| Magnesium |                                  |   | 5,000.000                           | U | 5,000.000 | U |   |   |                   | P |
| Manganese |                                  |   | 1.022                               | J | 0.909     | J |   |   |                   | P |
| Nickel    |                                  |   | 40.000                              | U | 40.000    | U |   |   |                   | P |
| Potassium |                                  |   | 5,000.000                           | U | 5,000.000 | U |   |   |                   | P |
| Selenium  |                                  |   | 35.000                              | U | 35.000    | U |   |   |                   | P |
| Silver    |                                  |   | 10.000                              | U | 10.000    | U |   |   |                   | P |
| Sodium    |                                  |   | 72.315                              | J | -28.700   | J |   |   |                   | P |
| Thallium  |                                  |   | 25.000                              | U | 25.000    | U |   |   |                   | P |
| Vanadium  |                                  |   | 50.000                              | U | 50.000    | U |   |   |                   | P |
| Zinc      |                                  |   | 60.000                              | U | 7.342     | J |   |   |                   | P |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical TestingContract: EPW08064Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0022Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |        |   |        |   | Preparation Blank |   | M  |
|---------|----------------------------------|---|-------------------------------------|---|--------|---|--------|---|-------------------|---|----|
|         |                                  | C | 1                                   | C | 2      | C | 3      | C |                   | C |    |
| Mercury | -0.037                           | J | -0.103                              | J | -0.061 | J | -0.115 | J | 0.100             | U | CV |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical TestingContract: EPW08064Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0022Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation Blank |   | CV |  |
|---------|----------------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|----|--|
|         |                                  | C | 1                                   | C | 2 | C | 3 | C |                   | C | M  |  |
| Mercury |                                  |   | -0.083                              | J |   |   |   |   |                   |   |    |  |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical TestingContract: EPW08064Lab Code: BONNER Case No.: 39260

NRAS No.: \_\_\_\_\_

SDG No.: ME0022Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |       |   |       |   | Preparation Blank |   |    |  |
|---------|----------------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|--|
|         |                                  | C | 1                                   | C | 2     | C | 3     | C |                   | C | M  |  |
| Cyanide | 2.150                            | J | 2.270                               | J | 2.180 | J | 2.380 | J | 0.205             | J | AS |  |

USEPA - CLP

3-IN  
BLANKSLab Name: Bonner Analytical TestingContract: EPW08064Lab Code: BONNER Case No.: 39260NRAS No.: \_\_\_\_\_ SDG No.: ME0022Preparation Blank Matrix (soil/water): SoilPreparation Blank Concentration Units (ug/L or mg/kg): mg/Kg

| Analyte | Initial Calibration Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation Blank |   | M  |
|---------|----------------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|----|
|         |                                  | C | 1                                   | C | 2 | C | 3 | C |                   | C |    |
| Cyanide |                                  |   | 2.040                               | J |   |   |   |   |                   |   | AS |

USEPA - CLP

4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

ICP-AES Instrument ID: ICAPP 6500 ICS Source: USEPA, Lot Part A(1206) B(0203)

Concentration Units: ug/L

| Analyte   | True      |            | Initial found |     |            |     | Final found |     |            |     |
|-----------|-----------|------------|---------------|-----|------------|-----|-------------|-----|------------|-----|
|           | Sol.<br>A | Sol.<br>AB | Sol.<br>A     | %R  | Sol.<br>AB | %R  | Sol.<br>A   | %R  | Sol.<br>AB | %R  |
| Aluminum  | 244000    | 244000     | 256000        | 105 | 257000     | 105 | 263000      | 108 | 265000     | 109 |
| Antimony  | 0         | 589        | -3.2          |     | 613        | 104 | -5.3        |     | 619        | 105 |
| Arsenic   | 0         | 101        | 1.7           |     | 100        | 99  | 2.4         |     | 102        | 101 |
| Barium    | 2         | 495        | 2.7           | 135 | 523        | 106 | 2.7         | 135 | 538        | 109 |
| Beryllium | 0         | 475        | 0.71          |     | 501        | 105 | 0.68        |     | 514        | 108 |
| Cadmium   | 0         | 940        | -0.27         |     | 958        | 102 | -0.44       |     | 969        | 103 |
| Calcium   | 235000    | 231000     | 256000        | 109 | 255000     | 110 | 261000      | 111 | 262000     | 113 |
| Chromium  | 43        | 511        | 47.4          | 110 | 561        | 110 | 48.6        | 113 | 576        | 113 |
| Cobalt    | 4         | 461        | 4.9           | 123 | 477        | 103 | 4.8         | 120 | 482        | 105 |
| Copper    | 23        | 548        | 14.2          | 62  | 542        | 99  | 15.0        | 65  | 557        | 102 |
| Iron      | 95600     | 94800      | 98500         | 103 | 97200      | 103 | 98700       | 103 | 98900      | 104 |
| Lead      | 10        | 61         | -0.79         | -8  | 48.6       | 80  | -0.53       | -5  | 46.5       | 76  |
| Magnesium | 248000    | 251000     | 251000        | 101 | 248000     | 99  | 253000      | 102 | 254000     | 101 |
| Manganese | 19        | 502        | 21.6          | 114 | 536        | 107 | 22.2        | 117 | 543        | 108 |
| Nickel    | 21        | 984        | 18.1          | 86  | 972        | 99  | 18.4        | 88  | 978        | 99  |
| Potassium | 0         | 0          | 8.5           |     | -7.3       |     | -46.5       |     | -49.4      |     |
| Selenium  | 0         | 53         | 1.5           |     | 50.3       | 95  | 2.8         |     | 50.1       | 95  |
| Silver    | 0         | 206        | 2.8           |     | 226        | 110 | 2.1         |     | 231        | 112 |
| Sodium    | 0         | 0          | 841           |     | 811        |     | 839         |     | 828        |     |
| Thallium  | 0         | 103        | 1.4           |     | 99.5       | 97  | 0.66        |     | 101        | 98  |
| Vanadium  | 0         | 494        | 2.6           |     | 513        | 104 | 4.1         |     | 521        | 105 |
| Zinc      | 28        | 1030       | 26.0          | 93  | 989        | 96  | 27.9        | 100 | 1000       | 97  |

USEPA - CLP

4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.: SDG No.: ME0022

ICP-AES Instrument ID: ICAPP 6500

ICS Source: USEPA, Lot Part A(1206) B(0203)

Concentration Units: ug/L

| Analyte   | True      |            | Initial found |    |            |    | Final found |     |            |     |
|-----------|-----------|------------|---------------|----|------------|----|-------------|-----|------------|-----|
|           | Sol.<br>A | Sol.<br>AB | Sol.<br>A     | %R | Sol.<br>AB | %R | Sol.<br>A   | %R  | Sol.<br>AB | %R  |
| Aluminum  | 244000    | 244000     |               |    |            |    | 262000      | 107 | 261000     | 107 |
| Antimony  | 0         | 589        |               |    |            |    | -2.8        |     | 611        | 104 |
| Arsenic   | 0         | 101        |               |    |            |    | 1.8         |     | 99.3       | 98  |
| Barium    | 2         | 495        |               |    |            |    | 3.0         | 150 | 531        | 107 |
| Beryllium | 0         | 475        |               |    |            |    | 0.74        |     | 491        | 103 |
| Cadmium   | 0         | 940        |               |    |            |    | -0.25       |     | 966        | 103 |
| Calcium   | 235000    | 231000     |               |    |            |    | 259000      | 110 | 259000     | 112 |
| Chromium  | 43        | 511        |               |    |            |    | 49.4        | 115 | 575        | 113 |
| Cobalt    | 4         | 461        |               |    |            |    | 4.9         | 123 | 477        | 103 |
| Copper    | 23        | 548        |               |    |            |    | 14.2        | 62  | 547        | 100 |
| Iron      | 95600     | 94800      |               |    |            |    | 94500       | 99  | 94900      | 100 |
| Lead      | 10        | 61         |               |    |            |    | -1.1        | -11 | 47.2       | 77  |
| Magnesium | 248000    | 251000     |               |    |            |    | 245000      | 99  | 244000     | 97  |
| Manganese | 19        | 502        |               |    |            |    | 21.8        | 115 | 536        | 107 |
| Nickel    | 21        | 984        |               |    |            |    | 18.2        | 87  | 966        | 98  |
| Potassium | 0         | 0          |               |    |            |    | -35.5       |     | -65.9      |     |
| Selenium  | 0         | 53         |               |    |            |    | 2.9         |     | 49.7       | 94  |
| Silver    | 0         | 206        |               |    |            |    | 2.4         |     | 232        | 113 |
| Sodium    | 0         | 0          |               |    |            |    | 850         |     | 829        |     |
| Thallium  | 0         | 103        |               |    |            |    | 0.11        |     | 109        | 106 |
| Vanadium  | 0         | 494        |               |    |            |    | 4.1         |     | 518        | 105 |
| Zinc      | 28        | 1030       |               |    |            |    | 27.1        | 97  | 992        | 96  |

USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0026S

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte   | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA)<br>C | %R     | Q    | M |
|-----------|------------------|---------------------------------|-------------------------|-----------------------|--------|------|---|
| Aluminum  | 75-125           | 1,426.7830                      | 989.9875                | 500.60                | 87     |      | P |
| Antimony  | 75-125           | 8.7620                          | 7.5000                  | 25.03                 | 35     | N    | P |
| Arsenic   |                  | 56.0901                         | 49.7472                 | 10.01                 | 63     |      | P |
| Barium    | 75-125           | 487.6971                        | 25.7222                 | 500.60                | 92     |      | P |
| Beryllium | 75-125           | 11.0353                         | 0.1514                  | J                     | 12.52  | 87   | P |
| Cadmium   | 75-125           | 25.3392                         | 16.8974                 | 12.52                 | 67     | N    | P |
| Chromium  | 75-125           | 46.8573                         | 2.4229                  | 50.06                 | 89     |      | P |
| Cobalt    | 75-125           | 101.4869                        | 8.4793                  | 125.20                | 74     | N    | P |
| Copper    | 75-125           | 157.5594                        | 100.5307                | 62.58                 | 91     |      | P |
| Iron      |                  | 54,374.2200                     | 55,814.7700             | 250.30                | -576   |      | P |
| Lead      |                  | 2,846.0570                      | 2,973.0910              | 5.01                  | -2536  |      | P |
| Manganese |                  | 1,073.7800                      | 967.4843                | 125.20                | 85     |      | P |
| Nickel    | 75-125           | 118.2703                        | 28.0213                 | 125.20                | 72     | N    | P |
| Selenium  | 75-125           | 10.1660                         | 4.4000                  | U                     | 12.52  | 81   | P |
| Silver    | 75-125           | 12.9862                         | 2.3075                  | 12.52                 | 85     |      | P |
| Thallium  | 75-125           | 9.9591                          | 3.1000                  | U                     | 12.52  | 80   | P |
| Vanadium  | 75-125           | 112.8373                        | 3.1091                  | J                     | 125.20 | 88   | P |
| Zinc      |                  | 8,774.9680                      | 9,189.4870              |                       | 125.20 | -331 | P |

Comments:

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USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0026S

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R  | Q | M  |
|---------|------------------|---------------------------------|-------------------------|------------------|-----|---|----|
| Mercury | 75-125           | 0.7541                          | 0.1300 U                | 0.63             | 118 |   | CV |

Comments:

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USEPA - CLP

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0026S

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R  | Q | M  |
|---------|------------------|---------------------------------|-------------------------|------------------|-----|---|----|
| Cyanide | 75-125           | 6.2503                          | 3.1000 U                | 6.26             | 100 |   | AS |

Comments:

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USEPA - CLP

5B-IN  
POST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME0026A

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9

Concentration Units ug/L: ug/L

| Analyte  | Control Limit %R | Spiked Sample Result (SSR)<br>C | Sample Result (SR)<br>C | Spike Added (SA) | %R | Q | M |
|----------|------------------|---------------------------------|-------------------------|------------------|----|---|---|
| Antimony |                  | 86.24                           | 60.00 U                 | 120.0            | 72 |   | P |
| Cadmium  |                  | 379.77                          | 135.01                  | 266.0            | 92 |   | P |
| Cobalt   |                  | 175.18                          | 67.75                   | 134.0            | 80 |   | P |
| Nickel   |                  | 580.40                          | 223.89                  | 446.0            | 80 |   | P |

Comments:

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USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0026D

Lab Name: Bonner Analytical Testing Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9 % Solids for Duplicate: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte   | Control Limit | Sample (S)<br>C | Duplicate (D)<br>C | RPD | Q | M |
|-----------|---------------|-----------------|--------------------|-----|---|---|
| Aluminum  |               | 989.9875        | 1016.5330          | 3   |   | P |
| Antimony  |               | 7.5 U           | 7.5 U              | 0   |   | P |
| Arsenic   |               | 49.7472         | 46.0150            | 8   |   | P |
| Barium    | 25.0          | 25.7222         | 25.2353            | 2   |   | P |
| Beryllium |               | 0.1514 J        | 0.1497 J           | 1   |   | P |
| Cadmium   |               | 16.8974         | 16.3354            | 3   |   | P |
| Calcium   |               | 152370.5000     | 155138.9000        | 2   |   | P |
| Chromium  | 1.3           | 2.4229          | 2.5378             | 5   |   | P |
| Cobalt    | 6.3           | 8.4793          | 8.3334             | 2   |   | P |
| Copper    |               | 100.5307        | 99.5657            | 1   |   | P |
| Iron      |               | 55814.7700      | 51754.6900         | 8   |   | P |
| Lead      |               | 2973.0910       | 2795.3690          | 6   |   | P |
| Magnesium |               | 59459.3200      | 59292.8600         | 0   |   | P |
| Manganese |               | 967.4843        | 968.7484           | 0   |   | P |
| Nickel    |               | 28.0213         | 26.4743            | 6   |   | P |
| Potassium |               | 486.0576 J      | 505.7322 J         | 4   |   | P |
| Selenium  |               | 4.4 U           | 4.4 U              | 0   |   | P |
| Silver    | 1.3           | 2.3075          | 2.1894             | 5   |   | P |
| Sodium    |               | 95.1202 J       | 94.3755 J          | 1   |   | P |
| Thallium  |               | 3.1 U           | 3.1 U              | 0   |   | P |
| Vanadium  |               | 3.1091 J        | 3.1110 J           | 0   |   | P |
| Zinc      |               | 9189.4870       | 8615.7690          | 6   |   | P |

USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0026D

Lab Name: Bonner Analytical Testing Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9 % Solids for Duplicate: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit | Sample (S) |   | Duplicate (D) |   | RPD | Q | M  |
|---------|---------------|------------|---|---------------|---|-----|---|----|
|         |               | C          |   | C             |   | 0   |   | CV |
| Mercury |               | 0.13       | U | 0.13          | U |     |   |    |

USEPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME0026D

Lab Name: Bonner Analytical Testing Contract EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Matrix: (Soil/Water) Soil Level: (low/med) LOW

% Solids for Sample: 79.9 % Solids for Duplicate: 79.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| Analyte | Control Limit | Sample (S) |   | Duplicate (D) |   | RPD | Q | M  |
|---------|---------------|------------|---|---------------|---|-----|---|----|
|         |               | C          | U | C             | U |     |   |    |
| Cyanide |               | 3.1        | U | 3.1           | U | 0   |   | AS |

USEPA - CLP

8-IN  
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME0026L

Lab Name: Bonner Analytical Testing

Contract: EPW08064

Lab Code: BONNER Case No.: 39260

NRAS No.:

SDG No.: ME0022

Matrix: (Soil/Water) Soil

Level: (low/med) LOW

Concentration Units: ug/L

| Analyte   | Initial Sample Result (I) |   | Serial Dilution Result (S) |   | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
|           | C                         | C | C                          | C |              |   |   |
| Aluminum  | 7910.00                   |   | 8244.75                    |   | 4            |   | P |
| Antimony  | 60.00                     | U | 300.00                     | U |              |   | P |
| Arsenic   | 397.48                    |   | 439.22                     |   | 11           | E | P |
| Barium    | 205.53                    |   | 217.90                     | J | 6            |   | P |
| Beryllium | 1.21                      | J | 25.00                      | U | 100          |   | P |
| Cadmium   | 135.01                    |   | 160.69                     | J | 19           | E | P |
| Calcium   | 217440.00                 |   | 255360.00                  |   | 3            |   | P |
| Chromium  | 19.36                     |   | 25.19                      | J | 30           |   | P |
| Cobalt    | 67.75                     |   | 80.56                      | J | 19           | E | P |
| Copper    | 803.24                    |   | 815.68                     |   | 2            |   | P |
| Iron      | 445960.00                 |   | 536925.00                  |   | 20           | E | P |
| Lead      | 23755.00                  |   | 28559.00                   |   | 20           | E | P |
| Magnesium | 475085.00                 |   | 516925.00                  |   | 9            |   | P |
| Manganese | 7730.20                   |   | 8518.00                    |   | 10           |   | P |
| Nickel    | 223.89                    |   | 264.46                     | J | 18           | E | P |
| Potassium | 3883.60                   | J | 3915.23                    |   | 1            |   | P |
| Selenium  | 35.00                     | U | 175.00                     | U |              |   | P |
| Silver    | 18.44                     |   | 50.00                      | U | 100          |   | P |
| Sodium    | 760.01                    | J | 757.08                     |   | 0            |   | P |
| Thallium  | 25.00                     | U | 125.00                     | U |              |   | P |
| Vanadium  | 24.84                     | J | 24.17                      | J | 3            |   | P |
| Zinc      | 73424.00                  |   | 79957.00                   |   | 9            |   | P |

USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)Lab Name: Bonner Analytical Testing Contract: EPW08064Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022Instrument Type: P Instrument ID: ICAPP 6500 Date: 01/15/2009Preparation NP1Concentration Units (ug/L or mg/Kg): ug/L

| Analyte   | Wavelength /Mass | CRQL  | MDL   |
|-----------|------------------|-------|-------|
| Aluminum  | 396.10           | 200   | 17.7  |
| Antimony  | 206.80           | 60.0  | 2.2   |
| Arsenic   | 189.00           | 10.0  | 2.1   |
| Barium    | 455.40           | 200   | 0.80  |
| Beryllium | 313.10           | 5.0   | 0.12  |
| Cadmium   | 214.40           | 5.0   | 0.092 |
| Calcium   | 318.10           | 5000  | 62.5  |
| Chromium  | 267.70           | 10.0  | 2.6   |
| Cobalt    | 228.60           | 50.0  | 0.29  |
| Copper    | 324.70           | 25.0  | 0.73  |
| Iron      | 238.20           | 100.0 | 5.1   |
| Lead      | 220.30           | 10.0  | 2.0   |
| Magnesium | 279.00           | 5000  | 44.5  |
| Manganese | 257.60           | 15.0  | 0.56  |
| Nickel    | 231.60           | 40.0  | 1.39  |
| Potassium | 766.40           | 5000  | 40.1  |
| Selenium  | 196.00           | 35.0  | 2.9   |
| Silver    | 328.00           | 10.0  | 3.2   |
| Sodium    | 589.50           | 5000  | 20.0  |
| Thallium  | 190.80           | 25.0  | 1.2   |
| Vanadium  | 292.40           | 50.0  | 3.1   |
| Zinc      | 206.20           | 60.0  | 1.4   |

Comments:

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USEPA - CLP

9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Instrument Type: P Instrument ID: ICAPP 6500 Date: 01/15/2009

Preparation HS1

Concentration Units (ug/L or mg/Kg): mg/Kg

| Analyte   | Wavelength /Mass | CRQL  | MDL   |
|-----------|------------------|-------|-------|
| Aluminum  | 396.10           | 20.0  | 3.9   |
| Antimony  | 206.80           | 6.00  | 0.21  |
| Arsenic   | 189.00           | 1.00  | 0.19  |
| Barium    | 455.40           | 20.0  | 0.068 |
| Beryllium | 313.10           | 0.500 | 0.016 |
| Cadmium   | 214.40           | 0.500 | 0.012 |
| Calcium   | 318.10           | 500   | 7.3   |
| Chromium  | 267.70           | 1.00  | 0.21  |
| Cobalt    | 228.60           | 5.00  | 0.020 |
| Copper    | 324.70           | 2.50  | 0.091 |
| Iron      | 238.20           | 10.0  | 0.59  |
| Lead      | 220.30           | 1.00  | 0.16  |
| Magnesium | 279.00           | 500   | 2.8   |
| Manganese | 257.60           | 1.50  | 0.061 |
| Nickel    | 231.60           | 4.00  | 0.067 |
| Potassium | 766.40           | 500   | 6.8   |
| Selenium  | 196.00           | 3.50  | 0.31  |
| Silver    | 328.00           | 1.00  | 0.45  |
| Sodium    | 589.50           | 500   | 4.6   |
| Thallium  | 190.80           | 2.50  | 0.16  |
| Vanadium  | 292.40           | 5.00  | 0.25  |
| Zinc      | 206.20           | 6.00  | 0.079 |

Comments:

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USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0022  
Preparation HS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| LCSS01         | 12/01/09         | 1.00          | 100         |
| ME0022         | 12/01/09         | 1.00          | 100         |
| ME0023         | 12/01/09         | 1.00          | 100         |
| ME0024         | 12/01/09         | 1.00          | 100         |
| ME0025         | 12/01/09         | 1.00          | 100         |
| ME0026         | 12/01/09         | 1.00          | 100         |
| ME0026D        | 12/01/09         | 1.00          | 100         |
| ME0026S        | 12/01/09         | 1.00          | 100         |
| ME0027         | 12/01/09         | 1.00          | 100         |
| ME0028         | 12/01/09         | 1.00          | 100         |
| ME0029         | 12/01/09         | 1.00          | 100         |
| ME0030         | 12/01/09         | 1.00          | 100         |
| ME0031         | 12/01/09         | 1.00          | 100         |
| ME0032         | 12/01/09         | 1.00          | 100         |
| ME0033         | 12/01/09         | 1.00          | 100         |
| ME0034         | 12/01/09         | 1.00          | 100         |
| PBS01          | 12/01/09         | 1.00          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0022  
 Preparation CS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| CCB01          | 12/01/09         | 0.20          | 100         |
| CCB02          | 12/01/09         | 0.20          | 100         |
| CCB03          | 12/01/09         | 0.20          | 100         |
| CCB04          | 12/01/09         | 0.20          | 100         |
| CCV01          | 12/01/09         | 0.20          | 100         |
| CCV02          | 12/01/09         | 0.20          | 100         |
| CCV03          | 12/01/09         | 0.20          | 100         |
| CCV04          | 12/01/09         | 0.20          | 100         |
| CRI01          | 12/01/09         | 0.20          | 100         |
| CRI02          | 12/01/09         | 0.20          | 100         |
| CRI03          | 12/01/09         | 0.20          | 100         |
| ICB01          | 12/01/09         | 0.20          | 100         |
| ICV01          | 12/01/09         | 0.20          | 100         |
| LCSS01         | 12/01/09         | 0.20          | 100         |
| ME0022         | 12/01/09         | 0.20          | 100         |
| ME0023         | 12/01/09         | 0.20          | 100         |
| ME0024         | 12/01/09         | 0.20          | 100         |
| ME0025         | 12/01/09         | 0.20          | 100         |
| ME0026         | 12/01/09         | 0.20          | 100         |
| ME0026D        | 12/01/09         | 0.20          | 100         |
| ME0026S        | 12/01/09         | 0.20          | 100         |
| ME0027         | 12/01/09         | 0.20          | 100         |
| ME0028         | 12/01/09         | 0.20          | 100         |
| ME0029         | 12/01/09         | 0.20          | 100         |
| ME0030         | 12/01/09         | 0.20          | 100         |
| ME0031         | 12/01/09         | 0.20          | 100         |
| ME0032         | 12/01/09         | 0.20          | 100         |
| ME0033         | 12/01/09         | 0.20          | 100         |
| ME0034         | 12/01/09         | 0.20          | 100         |
| PBS01          | 12/01/09         | 0.20          | 100         |
| S0             | 12/01/09         | 0.20          | 100         |
| S0.2           | 12/01/09         | 0.20          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0022  
Preparation CS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| S0.5           | 12/01/09         | 0.20          | 100         |
| S1             | 12/01/09         | 0.20          | 100         |
| S2             | 12/01/09         | 0.20          | 100         |
| S6             | 12/01/09         | 0.20          | 100         |

USEPA - CLP

12-IN  
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
Lab Code: BONNER Case No.: 39260 NRAS No.: SDG ME0022  
Preparation DS2

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| ICV01          | 12/01/09         | 1.00          | 50          |
| LCSS01         | 12/01/09         | 1.00          | 50          |
| ME0022         | 12/01/09         | 1.00          | 50          |
| ME0023         | 12/01/09         | 1.00          | 50          |
| ME0024         | 12/01/09         | 1.00          | 50          |
| ME0025         | 12/01/09         | 1.00          | 50          |
| ME0026         | 12/01/09         | 1.00          | 50          |
| ME0026D        | 12/01/09         | 1.00          | 50          |
| ME0026S        | 12/01/09         | 1.00          | 50          |
| ME0027         | 12/01/09         | 1.00          | 50          |
| ME0028         | 12/01/09         | 1.00          | 50          |
| ME0029         | 12/01/09         | 1.00          | 50          |
| ME0030         | 12/01/09         | 1.00          | 50          |
| ME0031         | 12/01/09         | 1.00          | 50          |
| ME0032         | 12/01/09         | 1.00          | 50          |
| ME0033         | 12/01/09         | 1.00          | 50          |
| ME0034         | 12/01/09         | 1.00          | 50          |
| MIDRANGE250    | 12/01/09         | 1.00          | 50          |
| PBS01          | 12/01/09         | 1.00          | 50          |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Instrument ICAPP 6500 Analysis Method: P

Start Date: 12/04/2009 End Date: 12/04/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |   |   |   |   |  |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|--|
|                |     |       | A L      | S B | A S | B A | B E | C D | C A | C O | C R | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V Z | Z N | C N |   |   |   |   |  |
| SO             | 1   | 11:53 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X |   |   |   |  |
| S              | 1   | 11:56 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X |   |   |   |  |
| S              | 1   | 11:59 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X |   |   |   |  |
| S              | 1   | 12:03 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X |   |   |   |  |
| S              | 1   | 12:06 |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |   |   |   |   |  |
| ICV01          | 1   | 12:09 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ICB01          | 1   | 12:12 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| CRI01          | 1   | 12:16 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ICSA01         | 1   | 12:19 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ICSA01         | 1   | 12:22 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| CCV01          | 1   | 12:26 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| CCB01          | 1   | 12:29 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| PBS01          | 1   | 12:32 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| LCSS01         | 1   | 12:36 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0022         | 1   | 12:39 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0023         | 1   | 12:42 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0024         | 1   | 12:45 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0025         | 1   | 12:49 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0026         | 1   | 12:52 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0026S        | 1   | 12:55 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0026D        | 1   | 12:59 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0026L        | 5   | 13:02 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| CCV02          | 1   | 13:05 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| CCB02          | 1   | 13:09 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0027         | 1   | 13:12 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0028         | 1   | 13:16 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0029         | 1   | 13:19 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0030         | 1   | 13:23 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X |   |   |  |
| ME0023         | 4   | 13:26 |          |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |   |   |   | X |  |
| ME0024         | 4   | 13:29 |          |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |   |   |   | X |  |
| ME0025         | 4   | 13:32 |          |     |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |   |   |   | X |  |
| CRI02          | 1   | 13:36 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X | X |   |  |
| ICSA02         | 1   | 13:39 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X | X |   |  |
| ICSA02         | 1   | 13:42 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X | X |   |  |
| CCV03          | 1   | 13:46 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X | X |   |  |
| CCB03          | 1   | 13:49 | X        | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X   | X | X   | X   | X   | X   | X   | X   | X   | X | X | X |   |  |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Instrument ICAPP 6500 Analysis Method: P

Start Date: 12/04/2009 End Date: 12/04/2009

| EPA Sample NO. | D/F | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
|----------------|-----|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
|                |     |       | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>O | C<br>R | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>Z | Z<br>N | C<br>N |   |
| ME0031         | 1   | 13:58 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ME0032         | 1   | 14:01 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ME0033         | 1   | 14:05 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ME0034         | 1   | 14:08 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ME0026A        | 1   | 14:12 |          | X      |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
| ME0026         | 4   | 14:15 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0026S        | 4   | 14:18 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0026D        | 4   | 14:21 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0029         | 4   | 14:25 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0030         | 4   | 14:28 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| CCV04          | 1   | 14:31 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| CCB04          | 1   | 14:34 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ME0031         | 3   | 14:38 |          |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0032         | 3   | 14:41 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0033         | 4   | 14:44 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| ME0034         | 4   | 14:47 |          |        |        |        |        | X      |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
| ME0026L        | 20  | 14:51 |          |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |
| CRI03          | 1   | 14:54 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ICSA03         | 1   | 14:57 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| ICSAB03        | 1   | 15:01 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| CCVC05         | 1   | 15:04 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |
| CCB05          | 1   | 15:07 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |   |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022  
 Instrument LM02 Analysis Method: CV  
 Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |     |     |     |     |     |       |       |       |     |     |       |       |     |     |     |     |     |     |     |     |     |   |   |  |
|----------------|-----|-------|----------|-----|-----|-----|-----|-----|-------|-------|-------|-----|-----|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|--|
|                |     |       | A L      | S B | A S | B A | B E | C D | C C A | C O R | C U E | F B | P M | M M G | M N G | H I | N G | K I | S E | A G | N A | T L | V Z | N C |   |   |  |
| S0             | 1   | 9:23  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| S0.2           | 1   | 9:25  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| S0.5           | 1   | 9:27  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| S1             | 1   | 9:29  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| S2             | 1   | 9:31  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| S6             | 1   | 9:33  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ICV01          | 1   | 9:37  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ICB01          | 1   | 9:39  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CR101          | 1   | 9:41  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCV01          | 1   | 9:43  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCB01          | 1   | 9:45  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| PBS01          | 1   | 9:47  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 9:49  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 9:53  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 9:55  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 9:57  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 9:59  |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 10:01 |          |     |     |     |     |     |       |       |       |     |     |       |       |     |     |     |     |     |     |     |     |     |   |   |  |
| ME0022         | 1   | 10:02 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0023         | 1   | 10:04 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0024         | 1   | 10:06 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCV02          | 1   | 10:09 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCB02          | 1   | 10:11 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0025         | 1   | 10:12 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ZZZZZZ         | 1   | 10:15 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| LCSS01         | 2   | 10:21 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0026         | 1   | 10:23 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0026D        | 1   | 10:25 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0026S        | 1   | 10:27 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0027         | 1   | 10:29 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0028         | 1   | 10:31 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CR102          | 1   | 10:33 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCV03          | 1   | 10:34 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| CCB03          | 1   | 10:36 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0029         | 1   | 10:39 |          |     |     |     |     |     |       |       |       |     |     |       |       |     | X   |     |     |     |     |     |     |     |   |   |  |
| ME0030         | 1   | 10:41 | -        | -   | -   | -   | -   | -   | -     | -     | -     | -   | -   | -     | -     | -   | X   | -   | -   | -   | -   | -   | -   | -   | - | - |  |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022  
 Instrument LM02 Analysis Method: CV  
 Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------|-----|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |     |       | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>O | C<br>R | F<br>U | P<br>E | M<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>A | Z<br>N | C<br>C |
| ME0031         | 1   | 10:43 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |
| ME0032         | 1   | 10:45 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |
| ME0033         | 1   | 10:46 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |
| ME0034         | 1   | 10:48 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |
| CRI03          | 1   | 10:50 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |
| CCV04          | 1   | 10:52 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |
| CCB04          | 1   | 10:54 |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064

Lab Code: BONNER Case No.: 39260 NRAS No.: SDG No.: ME0022

Instrument CN01 Analysis Method: AS

Start Date: 12/02/2009 End Date: 12/02/2009

| EPA<br>Sample<br>NO. | D/F | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-----|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |     |       | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>O | C<br>R | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>A | Z<br>L | C<br>N |
| S0                   | 1   | 13:59 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S5                   | 1   | 14:01 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S10                  | 1   | 14:02 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S50                  | 1   | 14:04 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S100                 | 1   | 14:05 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S250                 | 1   | 14:06 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S500                 | 1   | 14:08 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ICV01                | 1   | 14:09 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ICB01                | 1   | 14:11 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CRT01                | 1   | 14:12 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCV01                | 1   | 14:13 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCB01                | 1   | 14:15 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| BASELINE             | 1   | 14:16 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| MIDRANGE             | 1   | 14:18 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| PBS01                | 1   | 14:19 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| LCSS01               | 1   | 14:21 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:22 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1   | 14:23 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:25 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:26 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ME0022               | 1   | 14:28 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME0023               | 1   | 14:29 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME0024               | 1   | 14:30 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCV02                | 1   | 14:32 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCB02                | 1   | 14:33 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| BASELINE             | 1   | 14:35 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:36 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:38 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:39 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:40 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:42 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1   | 14:43 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME0029               | 1   | 14:45 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME0030               | 1   | 14:46 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME0031               | 1   | 14:47 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CRJ02                | 1   | 14:49 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |

USEPA - CLP

13-IN  
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW08064  
 Lab Code: BONNER Case No.: 39260 NRAS No.:  SDG No.: ME0022  
 Instrument CN01 Analysis Method: AS  
 Start Date: 12/02/2009 End Date: 12/02/2009

| EPA Sample NO. | D/F | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|----------------|-----|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                |     |       | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>O | C<br>R | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>I | Z<br>N | C<br>N |  |
| CCV03          | 1   | 14:50 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| CCB03          | 1   | 14:52 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| BASELINE       | 1   | 14:53 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0032         | 1   | 14:55 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0033         | 1   | 14:56 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0034         | 1   | 14:57 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0025         | 1   | 14:59 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0026         | 1   | 15:00 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0026D        | 1   | 15:02 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0026S        | 1   | 15:03 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0027         | 1   | 15:04 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| ME0028         | 1   | 15:06 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| CRI03          | 1   | 15:07 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| CCV04          | 1   | 15:09 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| CCB04          | 1   | 15:10 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |
| BASELINE       | 1   | 15:12 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |  |

**ESAT Controlled Number:** ESAT5.M.01111-pj 3/31/10

DATE: March 31, 2010

IEPA

**Attn: Mr. Mark Wagner**  
1001 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

SITE NAME: **Bautsch-Grey Mine (IL)**

| <b><u>Case</u></b> | <b><u>Lab</u></b> | <b><u>Samples</u></b> | <b><u>SDG</u></b> | <b><u>Matrix</u></b> |
|--------------------|-------------------|-----------------------|-------------------|----------------------|
| 39416              | CompuChem         | 5                     | ME00Y1            | soil                 |

**Analysis:** metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

**Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.**

Data Received by: \_\_\_\_\_ Date: \_\_\_\_\_

**PROBLEMS:**

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

---

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Received by Data Management Coordinator, CRL for file.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FROM: **U.S. EPA - Region 5**  
Sylvia Griffin  
Central Regional Laboratory  
536 S. Clark, 10th Floor  
Chicago, IL 60605

**RECEIVED**

Sent By: Pat Joyner  
Data Coordinator  
ESAT Region 5 **TechLaw**

APR 05 2010

**IEPA-BOL-FSRS**

Controlled Document

# ESAT5.15.00443

Regional Transmittal Form

*ACK*  
3-29-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 3/17/10

SUBJECT: Review of Data  
Received for review on 2/18/10

FROM: Stephen L. Ostrodka, Chief (SRT-5J)  
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Bautsch-Gray Mine (IL)

CASE NUMBER: 39416 SDG NUMBER: ME00Y1

Number and Type of Samples: 5 soils

Sample Numbers: ME00Y1-Y5

Laboratory: Compuchem Hrs. for Review: 8.0

*+1.0*

Following are our findings:

CC: Howard Pham  
Region 5 TOPO  
Mail Code: SRT-5J

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Five (5) soil samples, numbered ME00Y1-Y5, were collected on January 20, 2010. The lab received the samples on January 23, 2010 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

**1. HOLDING TIME:**

No defects were found.

**2. CALIBRATIONS:**

No defects were found for the calibration or the CRQL standards.

**3. BLANKS:**

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Beryllium  
ME00Y5

Cadmium  
ME00Y5

Sodium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Cyanide  
ME00Y2

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL. The samples are also associated with a positive ICSA (see below).

Hits less than 5 times the blank AND less than 10 times the ICSA are qualified "J".

Cadmium  
ME00Y2, ME00Y3, ME00Y4

Thallium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

#### 4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

No defects were found for the laboratory control sample.

#### 5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

#### 6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Barium

ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

Lead

ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

Zinc

ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME00Y1, ME00Y2, ME00Y3, ME00Y4

Selenium

ME00Y5

The following results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The samples are also

associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the MDL (see above).

Hits less than 10 times the absolute value of the ICSA AND less than 5 times the blank value are qualified "J".

Cadmium  
ME00Y2, ME00Y3, ME00Y4

Thallium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony  
ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

Cadmium  
ME00Y5

Selenium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4

## 7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Beryllium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4

Cadmium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4

Selenium  
ME00Y5

Thallium  
ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5

Cyanide  
ME00Y2

Case: 39416  
Site: Bautsch-Gray Mine

SDG: ME00Y1      Page 6 of 7  
Laboratory: Compuchem

All data, except those qualified above, are acceptable.

Reviewed by: Linda J. Moore  
Date: March 17, 2010

Page 141 of 179

**CADRE ILM05.4 Data Qualifier Sheet**

**Qualifiers**    **Data Qualifier Definitions**

- U      The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J      The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+     The result is an estimated quantity, but the result may be biased high.
- J-     The result is an estimated quantity, but the result may be biased low.
- R      The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- UJ     The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

## 1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

## 2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

CRQL are qualified "J". Non-detects are not qualified.

## 3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

### Antimony

ME4M18, ME4M19, ME4M47, ME4M48, ME4M49, ME4M50, ME4M51,  
ME4M52

### Barium

ME4M18, ME4M50

### Beryllium

ME4M11, ME4M16, ME4M18, ME4M19, ME4M47, ME4M50

### Cadmium

ME4M18, ME4M50

### Cobalt

ME4M07, ME4M08, ME4M09, ME4M10, ME4M11, ME4M12, ME4M13,  
ME4M14, ME4M15, ME4M16, ME4M17, ME4M18, ME4M19, ME4M47,  
ME4M48, ME4M49, ME4M50, ME4M51, ME4M52, ME4M53

### Copper

ME4M18

### Mercury

ME4M09, ME4M11, ME4M12, ME4M13, ME4M14, ME4M15, ME4M17,  
ME4M19, ME4M47, ME4M48, ME4M49, ME4M51

## Analytical Results (Qualified Data)

Page 1 of 1

Case #: 39416

SDG : ME00Y1

Site :

BAUTSCH-GRAY MINE

Lab. :

LIBRTY

Reviewer :

L. MOORE

Date :

3/17/2010

Number of Soil Samples : 5

Number of Water Samples : 0

| Sample Number :     | ME00Y1    | ME00Y2    | ME00Y3    | ME00Y4    | ME00Y5    |      |        |      |        |      |
|---------------------|-----------|-----------|-----------|-----------|-----------|------|--------|------|--------|------|
| Sampling Location : | X211-A    | X211-B    | X212      | X213-A    | X213-B    |      |        |      |        |      |
| Matrix :            | Soil      | Soil      | Soil      | Soil      | Soil      |      |        |      |        |      |
| Units :             | mg/Kg     | mg/Kg     | mg/Kg     | mg/Kg     | mg/Kg     |      |        |      |        |      |
| Date Sampled :      | 1/20/2010 | 1/20/2010 | 1/20/2010 | 1/20/2010 | 1/20/2010 |      |        |      |        |      |
| Time Sampled :      |           |           |           |           |           |      |        |      |        |      |
| %Solids :           | 69.3      | 67.6      | 70.4      | 72.2      | 72.3      |      |        |      |        |      |
| Dilution Factor :   | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       |      |        |      |        |      |
| ANALYTE             | Result    | Flag      | Result    | Flag      | Result    | Flag | Result | Flag | Result | Flag |
| ALUMINUM            | 9650      |           | 7870      |           | 7070      |      | 9630   |      | 8500   |      |
| ANTIMONY            | 8.6       | UJ        | 8.8       | UJ        | 8.1       | UJ   | 8.1    | UJ   | 8.3    | UJ   |
| ARSENIC             | 6.5       |           | 5.2       |           | 2.9       |      | 3.8    |      | 4.4    |      |
| BARIUM              | 126       | J         | 130       | J         | 98.6      | J    | 118    | J    | 115    | J    |
| BERYLLIUM           | 0.69      | J+        | 0.53      | J+        | 0.50      | J+   | 0.65   | J+   | 0.69   | U    |
| CADMIUM             | 0.55      | J+        | 0.46      | J         | 0.42      | J    | 0.39   | J    | 0.69   | UJ   |
| CALCIUM             | 59400     |           | 93600     |           | 49100     |      | 59500  |      | 70100  |      |
| CHROMIUM            | 18.7      |           | 14.6      |           | 11.5      |      | 17.1   |      | 15.7   |      |
| COBALT              | 13.9      |           | 11.8      |           | 7.6       |      | 13.3   |      | 15.0   |      |
| COPPER              | 18.3      |           | 14.1      |           | 12.1      |      | 18.2   |      | 16.7   |      |
| IRON                | 20000     |           | 13900     |           | 9920      |      | 14900  |      | 13500  |      |
| LEAD                | 14.6      | J         | 11.0      | J         | 14.7      | J    | 11.9   | J    | 12.2   | J    |
| MAGNESIUM           | 22400     |           | 17800     |           | 21600     |      | 18300  |      | 17300  |      |
| MANGANESE           | 1120      |           | 628       |           | 383       |      | 470    |      | 390    |      |
| MERCURY             | 0.14      | U         | 0.16      | U         | 0.14      | U    | 0.13   | U    | 0.14   | U    |
| NICKEL              | 24.9      |           | 19.7      |           | 15.2      |      | 24.9   |      | 24.0   |      |
| POTASSIUM           | 1820      |           | 1380      |           | 1030      |      | 1640   |      | 1390   |      |
| SELENIUM            | 5.0       | UJ        | 5.1       | UJ        | 4.7       | UJ   | 4.8    | UJ   | 0.80   | J+   |
| SILVER              | 1.4       | U         | 1.5       | U         | 1.4       | U    | 1.4    | U    | 1.4    | U    |
| SODIUM              | 714       | U         | 732       | U         | 676       | U    | 679    | U    | 692    | U    |
| THALLIUM            | 3.2       | J         | 1.7       | J         | 0.80      | J    | 2.0    | J    | 2.1    | J    |
| VANADIUM            | 32.2      |           | 22.8      |           | 20.0      |      | 28.3   |      | 25.6   |      |
| ZINC                | 72.3      | J         | 71.7      | J         | 68.9      | J    | 64.5   | J    | 73.0   | J    |
| CYANIDE             | 3.5       | U         | 0.32      | J         | 3.4       | U    | 3.4    | U    | 3.5    | U    |



**USEPA Contract Laboratory Program**  
**Inorganic Traffic Report & Chain of Custody Record**

|               |   |                            |               |   |                           |
|---------------|---|----------------------------|---------------|---|---------------------------|
| Date Shipped: | 1/21/2010   | Chain of Custody Record    |               | Sampler Signature: <i>Bruce Everett</i> | Case No: 39416            |
| Carrier Name: | UPS   | Relinquished By            | (Date / Time) | Received By                             | DAS No:                   |
| Airbill:      | 1Z6215892210022993  | 1 Lance Range 1/21/10 1200 |               | K Manning                               | SDG No: ME00Y1            |
| Shipped to:   | Liberty Analytical Corporation<br>501 Madison Avenue<br>Cary NC 27513<br>(919) 379-4100 | 2                          |               |   | For Lab Use Only          |
|               | 3   |                            |               |   | Lab Contract No: EPW08067 |
|               | 4   |                            |               |   | Unit Price:               |
|               |   |                            |               |   | Transfer To:              |
|               |   |                            |               |   | Lab Contract No:          |
|               |   |                            |               |   | Unit Price:               |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER                 | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No/ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No.      | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|---------------------------------|------------|----------------------|-------------------------------|------------------|--------------------------|-------------------------|--|
| ME00Y1               | Soil/Sediment/<br>Bruce Everett | L/G        | ICP, Hg,CN (21)      | 5-303205 (Ice Only) (1)       | X211-A           | S: 1/20/2010 10:50       |                         | <i>Spot</i>                                  |
| ME00Y2               | Soil/Sediment/<br>Bruce Everett | L/G        | ICP, Hg,CN (21)      | 5-303206 (Ice Only) (1)       | X211-B           | S: 1/20/2010 10:50       |                         |  |
| ME00Y3               | Soil/Sediment/<br>Bruce Everett | L/G        | ICP, Hg,CN (21)      | 5-303207 (Ice Only) (1)       | X212             | S: 1/20/2010 11:00       |                         |  |
| ME00Y4               | Soil/Sediment/<br>Bruce Everett | L/G        | ICP, Hg,CN (21)      | 5-303208 (Ice Only) (1)       | X213-A           | S: 1/20/2010 11:15       |                         |  |
| ME00Y5               | Soil/Sediment/<br>Bruce Everett | L/G        | ICP, Hg,CN (21)      | 5-303209 (Ice Only) (1)       | X213-B           | S: 1/20/2010 11:15       | <i>36 Single sample</i> | <i>V</i>                                     |

ORIGINAL

|  |  |   |   |   |
|--|--|---|---|---|
| Shipment for Case<br>Complete? <i>Yes</i>          | Sample(s) to be used for laboratory QC:          | Additional Sampler Signature(s):        | Cooler Temperature Upon Receipt:<br><i>24°C</i> | Chain of Custody Seal Number:<br><i>82887</i>         |
| Analysis Key:<br>L = Low, M = Low/Medium, H = High | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | <i>SN0010</i>                                   | Custody Seal Intact? <i>Y</i> Shipment Iced? <i>Y</i> |
| ICP, Hg,CN = CLP ICP Metals, Hg, CN                |  |   |   |   |

TR Number: 5-162075208-012110-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4200

LABORATORY COPY

**CompuChem**

**a Division of Liberty Analytical Corp.**  
501 Madison Avenue Cary, NC 27513

**SDG NARRATIVE**  
**CASE # 39416 SDG # ME00Y1**  
**CONTRACT # EPW08067**

The indicated Sample Delivery Group (SDG) consisting of five (5) solid samples was received on January 23, 2010. The samples were intact and in good condition with Chain of Custody (COC) Records.

**SAMPLE IDs:**

The following customer IDs are associated with this SDG:

**ME00Y1, ME00Y2, ME00Y3, ME00Y4, ME00Y5**

The samples were analyzed, in accordance with EPA - CLP Statement of Work (SOW) document ILM05.4 for the requested ICP-AES TAL metals, mercury, and cyanide.

The correlation coefficient for the mercury and cyanide analytical runs is confirmed to be  $\geq 0.9950$ .

The cooler temperature indicator bottle was found with the samples, and the sample's temperature was 2.4 degrees Celsius. Temperature was recorded by IR temperature gun.

**EQUATIONS FOR SOLID SAMPLE CALCULATIONS:**

Client sample ME00Y1 used for illustration.

**ICP Equation:**

Equation for obtaining metals sample results in mg/Kg as presented on FORM I data sheets from ICP instrument acquired results in  $\mu\text{g/L}$  (ppb).

$$\text{Concentration (\% solids) (mg/Kg)} = \frac{C \times V}{W \times S} \times DF$$

Where

C = concentration ( $\mu\text{g/L}$ )

DF = dilution factor

V = final volume in liters after sample preparation

W = weight in grams of wet sample

S = % solids/100

Example: Lead result  $\mu\text{g/L}$  to mg/Kg.

$$\frac{101.926 \mu\text{g/L} \times 0.1 \text{ L (V)}}{1.01 \text{ g (W)} \times 0.693} \times 1 = 14.562 \text{ mg/Kg reported as } 14.6 \text{ mg/Kg}$$

**Mercury Equation:**

Equation for obtaining mercury sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in  $\mu\text{g/L}$  (ppb).

$$\begin{array}{r} A \times D \times F \\ \hline B \times E \end{array}$$

Where

A =  $\mu\text{g/L}$  Hg

B = wet weight of sample

D = dilution factor to bring sample into analysis range

E = % solids/100

F = final volume in liters (0.1 L)

Example: mercury result  $\mu\text{g/L}$  to mg/Kg

$$\frac{0.031 \text{ } \mu\text{g/L} \text{ (A)} \times 1 \text{ (D)} \times 0.1 \text{ (F)}}{0.20 \text{ g (B)} \times 0.693 \text{ (E)}} = 0.022 \text{ mg/Kg reported as } 0.14 \text{ U mg/Kg}$$

#### Cyanide Equation:

Equation for obtaining cyanide sample results in mg/kg as presented on FORM I data sheets from instrument acquired results in  $\mu\text{g/l}$  (ppb).

$$\begin{array}{r} C \times D \times V \\ \hline W \times S \end{array}$$

Where

C = concentration of cyanide ( $\mu\text{g/l}$ )

W = wet weight of sample

D = dilution factor to bring sample into analysis range

S = % solids/100

V = final volume in liters

Example: cyanide result  $\mu\text{g/L}$  to mg/kg

$$\frac{-0.1191296 \text{ } \mu\text{g/l} \text{ (C)} \times 1 \text{ (D)} \times 0.05 \text{ (V)}}{1.04 \text{ g (W)} \times 0.693 \text{ (S)}} = -0.0083 \text{ mg/kg reported as } 3.5 \text{ U mg/kg}$$

#### INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV, CCV, & CRI), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits. The laboratory monitors two different wavelengths for selenium and lead to obtain interelement correction factor(s). For selenium 196.021 and 196.022 are monitored and the first wavelength's contribution is 1/3 of the total factor and the second contributes 2/3 of the total factor. For lead 220.351 and 220.352 are

monitored and first wavelength's contribution is 2/3 of the total factor and the second contributes 1/3 of the total factor.

#### **SAMPLE PREPARATION QUALITY CONTROL:**

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and the field sample was prepared and analyzed within the contract specified holding times.

#### **MATRIX RELATED QUALITY CONTROL:**

The ICP sample matrix spike, CCN = 0012708-MS1 (ME00Y5S) was found to be inside CLP control limits except antimony.

The mercury sample matrix spike, CCN = 0012709-MS1 (ME00Y5S) was found to be inside CLP control limits.

The cyanide sample matrix spike, CCN = 0012710-MS1 (ME00Y5S) was found to be inside CLP control limits.

The ICP sample matrix duplicate, CCN = 0012708-DUP1 (ME00Y5D) was found to be inside CLP control limits except magnesium.

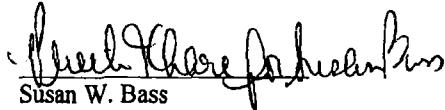
The mercury sample matrix duplicate, CCN = 0012709-DUP1 (ME00Y5D) was found to be inside CLP control limits.

The cyanide sample matrix duplicate, CCN = 0012710-DUP1 (ME00Y5D) was found to be inside CLP control limits.

A five-fold serial dilution of sample, CCN = 1001146-05 (ME00Y5L) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits except barium, lead, and zinc.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

  
Susan W. Bass  
Senior Chemist  
February 11, 2010

## US EPA - CLP

## COVER PAGE

Lab Name: COMPUCHEM Contract: EPW08067Lab Code: LIBERTY Case No: 39416 NRAS No.: \_\_\_\_\_ SDG No: ME00Y1SOW No.: ILM05.4

| EPA Sample No. | Lab Sample ID       |
|----------------|---------------------|
| <u>ME00Y1</u>  | <u>1001146-01</u>   |
| <u>ME00Y2</u>  | <u>1001146-02</u>   |
| <u>ME00Y3</u>  | <u>1001146-03</u>   |
| <u>ME00Y4</u>  | <u>1001146-04</u>   |
| <u>ME00Y5</u>  | <u>1001146-05</u>   |
| <u>ME00Y5D</u> | <u>0012710-DUP1</u> |
| <u>ME00Y5D</u> | <u>0012708-DUP1</u> |
| <u>ME00Y5D</u> | <u>0012709-DUP1</u> |
| <u>ME00Y5S</u> | <u>0012710-MS1</u>  |
| <u>ME00Y5S</u> | <u>0012708-MS1</u>  |
| <u>ME00Y5S</u> | <u>0012709-MS1</u>  |

ICP-AES ICP-MS

Were ICP-AES and ICP-MS interelement corrections applied? (Yes/No) YES NOWere ICP-AES and ICP-MS background corrections applied? (Yes/No) YES NOIf yes, were raw data generated before application of background corrections? (Yes/No) NO NOComments: THE FOLLOWING ANALYTES HAVE BEEN FLAGGED WITH AN "E" TO INDICATE SERIAL DILUTION RESULTS WHICH ARE NOT WITHIN CONTROL LIMITS: BARIUM, LEAD, ZINC

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan W. Bass Name: Susan W. BassDate: 2-12-90 Title: Senior Chemist

## US EPA - CLP

IA-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y1

Lab Name: COMPUCHEMContract: EPW08067Lab Code: LIBERTY Case No.: 39416NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1Matrix (soil/water): SOILLab Sample ID: 1001146-01Level (low/med): LOWDate Received: 01/23/2010% Solids: 69.3Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 9650          |   |   | P  |
| 7440-36-0 | Antimony  | 8.6           | U | N | P  |
| 7440-38-2 | Arsenic   | 6.5           |   |   | P  |
| 7440-39-3 | Barium    | 126           |   | E | P  |
| 7440-41-7 | Beryllium | 0.69          | J |   | P  |
| 7440-43-9 | Cadmium   | 0.55          | J |   | P  |
| 7440-70-2 | Calcium   | 59400         |   |   | P  |
| 7440-47-3 | Chromium  | 18.7          |   |   | P  |
| 7440-48-4 | Cobalt    | 13.9          |   |   | P  |
| 7440-50-8 | Copper    | 18.3          |   |   | P  |
| 7439-89-6 | Iron      | 20000         |   |   | P  |
| 7439-92-1 | Lead      | 14.6          |   | E | P  |
| 7439-95-4 | Magnesium | 22400         |   | * | P  |
| 7439-96-5 | Manganese | 1120          |   |   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |   | CV |
| 7440-02-0 | Nickel    | 24.9          |   |   | P  |
| 7440-09-7 | Potassium | 1820          |   |   | P  |
| 7782-49-2 | Selenium  | 5.0           | U |   | P  |
| 7440-22-4 | Silver    | 1.4           | U |   | P  |
| 7440-23-5 | Sodium    | 176           | J |   | P  |
| 7440-28-0 | Thallium  | 3.2           | J |   | P  |
| 7440-62-2 | Vanadium  | 32.2          |   |   | P  |
| 7440-66-6 | Zinc      | 72.3          |   | E | P  |
| 57-12-5   | Cyanide   | 3.5           | U |   | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUMColor After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

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\_\_\_\_\_

US EPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y2

|                                  |                                  |           |                        |
|----------------------------------|----------------------------------|-----------|------------------------|
| Lab Name: <u>COMPUCHEM</u>       | Contract: <u>EPW08067</u>        |           |                        |
| Lab Code: <u>LIBRTY</u>          | Case No.: <u>39416</u>           | NRAS No.: | SDG No.: <u>ME00Y1</u> |
| Matrix (soil/water): <u>SOIL</u> | Lab Sample ID: <u>1001146-02</u> |           |                        |
| Level (low/med): <u>LOW</u>      | Date Received: <u>01/23/2010</u> |           |                        |
| % Solids: <u>67.6</u>            |                                  |           |                        |

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 7870          |   |   | P  |
| 7440-36-0 | Antimony  | 8.8           | U | N | P  |
| 7440-38-2 | Arsenic   | 5.2           |   |   | P  |
| 7440-39-3 | Barium    | 130           |   | E | P  |
| 7440-41-7 | Beryllium | 0.53          | J |   | P  |
| 7440-43-9 | Cadmium   | 0.46          | J |   | P  |
| 7440-70-2 | Calcium   | 93600         |   |   | P  |
| 7440-47-3 | Chromium  | 14.6          |   |   | P  |
| 7440-48-4 | Cobalt    | 11.8          |   |   | P  |
| 7440-50-8 | Copper    | 14.1          |   |   | P  |
| 7439-89-6 | Iron      | 13900         |   |   | P  |
| 7439-92-1 | Lead      | 11.0          |   | E | P  |
| 7439-95-4 | Magnesium | 17800         |   | * | P  |
| 7439-96-5 | Manganese | 628           |   |   | P  |
| 7439-97-6 | Mercury   | 0.15          | U |   | CV |
| 7440-02-0 | Nickel    | 19.7          |   |   | P  |
| 7440-09-7 | Potassium | 1380          |   |   | P  |
| 7782-49-2 | Selenium  | 5.1           | U |   | P  |
| 7440-22-4 | Silver    | 1.5           | U |   | P  |
| 7440-23-5 | Sodium    | 176           | J |   | P  |
| 7440-28-0 | Thallium  | 1.7           | J |   | P  |
| 7440-62-2 | Vanadium  | 22.8          |   |   | P  |
| 7440-66-6 | Zinc      | 71.7          |   | E | P  |
| 57-12-5   | Cyanide   | 0.32          | J |   | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

US EPA - CLP  
IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y3

|                                  |                                  |           |                        |
|----------------------------------|----------------------------------|-----------|------------------------|
| Lab Name: <u>COMPUCHEM</u>       | Contract: <u>EPW08067</u>        |           |                        |
| Lab Code: <u>LIBERTY</u>         | Case No.: <u>39416</u>           | NRAS No.: | SDG No.: <u>ME00Y1</u> |
| Matrix (soil/water): <u>SOIL</u> | Lab Sample ID: <u>1001146-03</u> |           |                        |
| Level (low/med): <u>LOW</u>      | Date Received: <u>01/23/2010</u> |           |                        |
| % Solids: <u>70.4</u>            |                                  |           |                        |

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 7070          |   |   | P  |
| 7440-36-0 | Antimony  | 8.1           | U | N | P  |
| 7440-38-2 | Arsenic   | 2.9           |   |   | P  |
| 7440-39-3 | Barium    | 98.6          |   | E | P  |
| 7440-41-7 | Beryllium | 0.50          | J |   | P  |
| 7440-43-9 | Cadmium   | 0.42          | J |   | P  |
| 7440-70-2 | Calcium   | 49100         | . |   | P  |
| 7440-47-3 | Chromium  | 11.5          |   |   | P  |
| 7440-48-4 | Cobalt    | 7.6           | . |   | P  |
| 7440-50-8 | Copper    | 12.1          |   |   | P  |
| 7439-89-6 | Iron      | 9920          |   |   | P  |
| 7439-92-1 | Lead      | 14.7          |   | E | P  |
| 7439-95-4 | Magnesium | 21600         |   | * | P  |
| 7439-96-5 | Manganese | 383           |   |   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |   | CV |
| 7440-02-0 | Nickel    | 15.2          |   |   | P  |
| 7440-09-7 | Potassium | 1030          |   |   | P  |
| 7782-49-2 | Selenium  | 4.7           | U |   | P  |
| 7440-22-4 | Silver    | 1.4           | U |   | P  |
| 7440-23-5 | Sodium    | 122           | J |   | P  |
| 7440-28-0 | Thallium  | 0.80          | J |   | P  |
| 7440-62-2 | Vanadium  | 20.0          | . |   | P  |
| 7440-66-6 | Zinc      | 68.9          |   | E | P  |
| 57-12-5   | Cyanide   | 3.4           | U |   | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

US EPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y4

Lab Name: COMPUCHEM

Contract: EPW08067

Lab Code: LIBERTY Case No.: 39416

NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1

Matrix (soil/water): SOIL

Lab Sample ID: 1001146-04

Level (low/med): LOW

Date Received: 01/23/2010

% Solids: 72.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 9630          |   |   | P  |
| 7440-36-0 | Antimony  | 8.1           | U | N | P  |
| 7440-38-2 | Arsenic   | 3.8           |   |   | P  |
| 7440-39-3 | Barium    | 118           |   | E | P  |
| 7440-41-7 | Beryllium | 0.65          | J |   | P  |
| 7440-43-9 | Cadmium   | 0.39          | J |   | P  |
| 7440-70-2 | Calcium   | 59500         |   |   | P  |
| 7440-47-3 | Chromium  | 17.1          |   |   | P  |
| 7440-48-4 | Cobalt    | .13.3         |   |   | P  |
| 7440-50-8 | Copper    | 18.2          |   |   | P  |
| 7439-89-6 | Iron      | 14900         |   |   | P  |
| 7439-92-1 | Lead      | 11.9          |   | E | P  |
| 7439-95-4 | Magnesium | 18300         |   | * | P  |
| 7439-96-5 | Manganese | 470           |   |   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |   | CV |
| 7440-02-0 | Nickel    | 24.9          |   |   | P  |
| 7440-09-7 | Potassium | 1640          |   |   | P  |
| 7782-49-2 | Selenium  | 4.8           | U |   | P  |
| 7440-22-4 | Silver    | 1.4           | U |   | P  |
| 7440-23-5 | Sodium    | 154           | J |   | P  |
| 7440-28-0 | Thallium  | 2.0           | J |   | P  |
| 7440-62-2 | Vanadium  | 28.3          |   |   | P  |
| 7440-66-6 | Zinc      | 64.5          |   | E | P  |
| 57-12-5   | Cyanide   | 3.4           | U |   | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

US EPA - CLP  
IA-IN  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y5

|                      |                  |                |                   |
|----------------------|------------------|----------------|-------------------|
| Lab Name:            | <u>COMPUCHEM</u> | Contract:      | <u>EPW08067</u>   |
| Lab Code:            | <u>LIBERTY</u>   | Case No.:      | <u>39416</u>      |
| Matrix (soil/water): | <u>SOIL</u>      | NRAS No.:      | <u></u>           |
| Level (low/med):     | <u>LOW</u>       | Lab Sample ID: | <u>1001146-05</u> |
| % Solids:            | <u>72.3</u>      | Date Received: | <u>01/23/2010</u> |

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 8500          |   |   | P  |
| 7440-36-0 | Antimony  | 8.3           | U | N | P  |
| 7440-38-2 | Arsenic   | 4.4           |   |   | P  |
| 7440-39-3 | Barium    | 115           |   | E | P  |
| 7440-41-7 | Beryllium | 0.64          | J |   | P  |
| 7440-43-9 | Cadmium   | 0.54          | J |   | P  |
| 7440-70-2 | Calcium   | 70100         |   |   | P  |
| 7440-47-3 | Chromium  | 15.7          |   |   | P  |
| 7440-48-4 | Cobalt    | 15.0          |   |   | P  |
| 7440-50-8 | Copper    | 16.7          |   |   | P  |
| 7439-89-6 | Iron      | 13500         |   |   | P  |
| 7439-92-1 | Lead      | 12.2          |   | E | P  |
| 7439-95-4 | Magnesium | 17300         |   | * | P  |
| 7439-96-5 | Manganese | 390           |   |   | P  |
| 7439-97-6 | Mercury   | 0.14          | U |   | CV |
| 7440-02-0 | Nickel    | 24.0          |   |   | P  |
| 7440-09-7 | Potassium | 1390          |   |   | P  |
| 7782-49-2 | Selenium  | 0.80          | J |   | P  |
| 7440-22-4 | Silver    | 1.4           | U |   | P  |
| 7440-23-5 | Sodium    | 211           | J |   | P  |
| 7440-28-0 | Thallium  | 2.1           | J |   | P  |
| 7440-62-2 | Vanadium  | 25.6          |   |   | P  |
| 7440-66-6 | Zinc      | 73.0          |   | E | P  |
| 57-12-5   | Cyanide   | 3.5           | U |   | AS |

Color Before: BROWN Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

## US EPA - CLP

3-IN  
BLANKSLab Name: COMPUCHEMContract: EPW08067Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: MEOOYIPreparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte   | Initial Calibration Blank(ug/L) |   | Continuing Calibration Blank (ug/L) |   |          |   |          |   | Preparation Blank |   | C  | M |
|-----------|---------------------------------|---|-------------------------------------|---|----------|---|----------|---|-------------------|---|----|---|
|           |                                 | C | 1                                   | C | 2        | C | 3        | C |                   | C |    |   |
| Aluminum  | 200.000                         | U | 31.584                              | J | 76.918   | J | 75.452   | J | 20.000            | U | P  |   |
| Antimony  | 60.000                          | U | 60.000                              | U | 60.000   | U | 60.000   | U | 0.821             | J | P  |   |
| Arsenic   | 10.000                          | U | 2.022                               | J | 1.717    | J | 10.000   | U | 1.000             | U | P  |   |
| Barium    | 200.000                         | U | 200.000                             | U | 200.000  | U | 200.000  | U | 20.000            | U | P  |   |
| Beryllium | 5.000                           | U | 5.000                               | U | 1.201    | J | 1.280    | J | 0.500             | U | P  |   |
| Cadmium   | 5.000                           | U | 5.000                               | U | 0.872    | J | 5.000    | U | 0.500             | U | P  |   |
| Calcium   | 5000.000                        | U | 5000.000                            | U | 5000.000 | U | 5000.000 | U | 14.940            | J | P  |   |
| Chromium  | 1.593                           | J | -0.959                              | J | -0.846   | J | 10.000   | U | 1.000             | U | P  |   |
| Cobalt    | 50.000                          | U | 50.000                              | U | 3.031    | J | 2.606    | J | 5.000             | U | P  |   |
| Copper    | 0.693                           | J | -0.454                              | J | -1.229   | J | -1.348   | J | -0.108            | J | P  |   |
| Iron      | 100.000                         | U | 100.000                             | U | 100.000  | U | 100.000  | U | 10.000            | U | P  |   |
| Lead      | 10.000                          | U | 10.000                              | U | 10.000   | U | 10.000   | U | 0.426             | J | P  |   |
| Magnesium | 5000.000                        | U | 24.717                              | J | 5000.000 | U | 5000.000 | U | 2.531             | J | P  |   |
| Manganese | 15.000                          | U | 15.000                              | U | 15.000   | U | 15.000   | U | 1.500             | U | P  |   |
| Mercury   | -0.112                          | J | -0.119                              | J | -0.092   | J | -0.118   | J | 0.100             | U | CV |   |
| Nickel    | 3.245                           | J | -2.279                              | J | -1.640   | J | 40.000   | U | 4.000             | U | P  |   |
| Potassium | 5000.000                        | U | 5000.000                            | U | 5000.000 | U | 5000.000 | U | 2.622             | J | P  |   |
| Selenium  | 35.000                          | U | 35.000                              | U | 35.000   | U | 35.000   | U | 3.500             | U | P  |   |
| Silver    | 10.000                          | U | 10.000                              | U | 10.000   | U | 10.000   | U | 1.000             | U | P  |   |
| Sodium    | 5000.000                        | U | 5000.000                            | U | 5000.000 | U | 5000.000 | U | 71.936            | J | P  |   |
| Thallium  | 25.000                          | U | 25.000                              | U | 25.000   | U | 25.000   | U | -0.452            | J | P  |   |
| Vanadium  | -0.608                          | J | 50.000                              | U | 50.000   | U | -0.623   | J | 5.000             | U | P  |   |
| Zinc      | 60.000                          | U | 60.000                              | U | 60.000   | U | 60.000   | U | 0.177             | J | P  |   |
| Cyanide   | -1.327                          | J | -1.153                              | J | -0.951   | J | 10.000   | U | 2.500             | U | AS |   |

## US EPA - CLP

3-IN  
BLANKSLab Name: COMPUCHEM Contract: EPW08067Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte   | Initial Calibration Blank(ug/L) |   | Continuing Calibration Blank (ug/L) |   |          |   |   |   | Preparation Blank |   |
|-----------|---------------------------------|---|-------------------------------------|---|----------|---|---|---|-------------------|---|
|           |                                 | C | 1                                   | C | 2        | C | 3 | C | C                 | M |
| Aluminum  | 200.000                         | U | 40.777                              | J | 200.000  | U |   |   |                   | P |
| Antimony  | 60.000                          | U | 60.000                              | U | 60.000   | U |   |   |                   | P |
| Arsenic   | 10.000                          | U | 10.000                              | U | 10.000   | U |   |   |                   | P |
| Barium    | 200.000                         | U | 200.000                             | U | 200.000  | U |   |   |                   | P |
| Beryllium | 5.000                           | U | 5.000                               | U | 5.000    | U |   |   |                   | P |
| Cadmium   | 5.000                           | U | 5.000                               | U | -0.761   | J |   |   |                   | P |
| Calcium   | 5000.000                        | U | 38.812                              | J | 5000.000 | U |   |   |                   | P |
| Chromium  | 10.000                          | U | 10.000                              | U | 10.000   | U |   |   |                   | P |
| Cobalt    | 50.000                          | U | -2.201                              | J | -2.814   | J |   |   |                   | P |
| Copper    | 25.000                          | U | 25.000                              | U | 25.000   | U |   |   |                   | P |
| Iron      | 100.000                         | U | 20.111                              | J | 100.000  | U |   |   |                   | P |
| Lead      | 10.000                          | U | 10.000                              | U | 10.000   | U |   |   |                   | P |
| Magnesium | 5000.000                        | U | 36.029                              | J | 5000.000 | U |   |   |                   | P |
| Manganese | 15.000                          | U | 15.000                              | U | 15.000   | U |   |   |                   | P |
| Nickel    | 40.000                          | U | 40.000                              | U | 40.000   | U |   |   |                   | P |
| Potassium | 5000.000                        | U | 5000.000                            | U | 5000.000 | U |   |   |                   | P |
| Selenium  | 35.000                          | U | 35.000                              | U | 35.000   | U |   |   |                   | P |
| Silver    | 10.000                          | U | 10.000                              | U | 10.000   | U |   |   |                   | P |
| Sodium    | 5000.000                        | U | 5000.000                            | U | 5000.000 | U |   |   |                   | P |
| Thallium  | 25.000                          | U | 25.000                              | U | 25.000   | U |   |   |                   | P |
| Vanadium  | 50.000                          | U | 50.000                              | U | 50.000   | U |   |   |                   | P |
| Zinc      | 60.000                          | U | 60.000                              | U | 60.000   | U |   |   |                   | P |

US EPA - CLP  
4A-IN  
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

ICP-AES Instrument ID: P4 ICS Source: EPA-1206-203

Concentration Units: ug/L

| Analyte   | True   |        | Initial Found |     |        |     | Final Found |     |        |     |
|-----------|--------|--------|---------------|-----|--------|-----|-------------|-----|--------|-----|
|           | Sol.A  | Sol AB | Sol.A         | %R  | Sol AB | %R  | Sol.A       | %R  | Sol AB | %R  |
| Aluminum  | 244000 | 241000 | 251000        | 103 | 252000 | 105 | 252000      | 103 | 255000 | 106 |
| Antimony  | 0      | 589    | 3.4           |     | 623    | 106 | -3.4        |     | 645    | 110 |
| Arsenic   | 0      | 101    | 2.0           |     | 101    | 100 | 0.80        |     | 106    | 105 |
| Barium    | 2      | 495    | 1.5           | 75  | 476    | 96  | 1.5         | 75  | 471    | 95  |
| Beryllium | 0      | 475    | 1.2           |     | 493    | 104 | 2.3         |     | 507    | 107 |
| Cadmium   | 0      | 940    | -1.0          |     | 949    | 101 | 0.020       |     | 993    | 106 |
| Calcium   | 235000 | 231000 | 248000        | 106 | 245000 | 106 | 245000      | 104 | 251000 | 109 |
| Chromium  | 43     | 511    | 43.4          | 101 | 522    | 102 | 41.4        | 96  | 526    | 103 |
| Cobalt    | 4      | 461    | 5.7           | 142 | 496    | 108 | 9.0         | 225 | 516    | 112 |
| Copper    | 23     | 548    | 23.4          | 102 | 543    | 99  | 21.3        | 93  | 538    | 98  |
| Iron      | 95600  | 94800  | 97800         | 102 | 96400  | 102 | 99000       | 104 | 100000 | 105 |
| Lead      | 10     | 61     | 13.4          | 134 | 64.2   | 105 | 13.6        | 136 | 67.0   | 110 |
| Magnesium | 248000 | 251000 | 266000        | 107 | 261000 | 104 | 266000      | 107 | 269000 | 107 |
| Manganese | 19     | 502    | 18.5          | 97  | 516    | 103 | 18.0        | 95  | 522    | 104 |
| Nickel    | 21     | 984    | 19.9          | 95  | 1010   | 103 | 20.1        | 96  | 1050   | 107 |
| Potassium | 0      | 0      | 0.035         |     | -1.6   |     | 0.73        |     | 0.72   |     |
| Selenium  | 0      | 53     | 2.6           |     | 53.1   | 100 | 3.3         |     | 56.2   | 106 |
| Silver    | 0      | 206    | -0.32         |     | 202    | 98  | -0.26       |     | 202    | 98  |
| Sodium    | 0      | 0      | 878           |     | 855    |     | 997         |     | 1000   |     |
| Thallium  | 0      | 103    | 10.9          |     | 114    | 111 | 15.1        |     | 122    | 118 |
| Vanadium  | 0      | 494    | -2.2          |     | 500    | 101 | -1.7        |     | 503    | 102 |
| Zinc      | 28     | 1030   | 31.6          | 113 | 936    | 91  | 31.0        | 111 | 995    | 97  |

## US EPA - CLP

4A-IN

## ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: EPW08067Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1ICP-AES Instrument ID: P4 ICS Source: EPA-1206-203

Concentration Units: ug/L

| Analyte   | True   |        | Initial Found |     |        |     | Final Found |     |        |     |
|-----------|--------|--------|---------------|-----|--------|-----|-------------|-----|--------|-----|
|           | Sol.A  | Sol AB | Sol.A         | %R  | Sol AB | %R  | Sol.A       | %R  | Sol AB | %R  |
| Aluminum  | 244000 | 241000 | 244000        | 100 | 246000 | 102 | 243000      | 100 | 249000 | 103 |
| Antimony  | 0      | 589    | -0.74         |     | 600    | 102 | 1.6         |     | 600    | 102 |
| Arsenic   | 0      | 101    | 0.19          |     | 97.3   | 96  | -0.86       |     | 100    | 99  |
| Barium    | 2      | 495    | 1.4           | 70  | 447    | 90  | 1.4         | 70  | 452    | 91  |
| Beryllium | 0      | 475    | 1.1           |     | 500    | 105 | 0.85        |     | 500    | 105 |
| Cadmium   | 0      | 940    | 1.6           |     | 936    | 100 | 1.2         |     | 938    | 100 |
| Calcium   | 235000 | 231000 | 234000        | 100 | 251000 | 109 | 241000      | 103 | 251000 | 109 |
| Chromium  | 43     | 511    | 41.3          | 96  | 515    | 101 | 43.1        | 100 | 517    | 101 |
| Cobalt    | 4      | 461    | 4.8           | 120 | 495    | 107 | 5.0         | 125 | 498    | 108 |
| Copper    | 23     | 548    | 23.6          | 103 | 527    | 96  | 23.4        | 102 | 531    | 97  |
| Iron      | 95600  | 94800  | 94900         | 99  | 99400  | 105 | 96700       | 101 | 100000 | 105 |
| Lead      | 10     | 61     | 9.9           | 99  | 60.3   | 99  | 11.6        | 116 | 60.9   | 100 |
| Magnesium | 248000 | 251000 | 251000        | 101 | 261000 | 104 | 254000      | 102 | 261000 | 104 |
| Manganese | 19     | 502    | 18.4          | 97  | 513    | 102 | 19.0        | 100 | 517    | 103 |
| Nickel    | 21     | 984    | 21.0          | 100 | 975    | 99  | 21.5        | 102 | 977    | 99  |
| Potassium | 0      | 0      | 2.8           |     | 5.3    |     | 4.6         |     | 5.3    |     |
| Selenium  | 0      | 53     | -3.5          |     | 46.4   | 88  | -1.3        |     | 48.8   | 92  |
| Silver    | 0      | 206    | -0.017        |     | 199    | 97  | -0.22       |     | 199    | 97  |
| Sodium    | 0      | 0      | 877           |     | 823    |     | 840         |     | 821    |     |
| Thallium  | 0      | 103    | 13.6          |     | 109    | 106 | 9.7         |     | 110    | 107 |
| Vanadium  | 0      | 494    | -1.5          |     | 494    | 100 | -1.2        |     | 494    | 100 |
| Zinc      | 28     | 1030   | 28.6          | 102 | 934    | 91  | 30.0        | 107 | 929    | 90  |

US EPA - CLP  
SA-IN  
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00Y5S

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 72.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| Analyte   | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R  | Q | M  |
|-----------|------------------|----------------------------|---|--------------------|---|------------------|-----|---|----|
| Antimony  | 75 - 125         | 5.0908                     | J | 8.2988             | U | 27.66            | 18  | N | P  |
| Arsenic   | 75 - 125         | 13.3112                    |   | 4.3993             |   | 11.07            | 81  |   | P  |
| Barium    | 75 - 125         | 725.4578                   |   | 114.5730           |   | 553.25           | 110 |   | P  |
| Beryllium | 75 - 125         | 12.8453                    |   | 0.6390             | J | 13.83            | 88  |   | P  |
| Cadmium   | 75 - 125         | 12.6005                    |   | 0.5365             | J | 13.83            | 87  |   | P  |
| Chromium  | 75 - 125         | 65.5653                    |   | 15.7431            |   | 55.33            | 90  |   | P  |
| Cobalt    | 75 - 125         | 134.9708                   |   | 15.0360            |   | 138.31           | 87  |   | P  |
| Copper    | 75 - 125         | 86.9376                    |   | 16.6624            |   | 69.16            | 102 |   | P  |
| Lead      | 75 - 125         | 16.9873                    |   | 12.2229            |   | 5.53             | 86  |   | P  |
| Manganese | 75 - 125         | 509.1828                   |   | 390.3200           |   | 138.31           | 86  |   | P  |
| Mercury   | 75 - 125         | 0.6515                     |   | 0.1383             | U | 0.69             | 94  |   | CV |
| Nickel    | 75 - 125         | 144.3892                   |   | 23.9591            |   | 138.31           | 87  |   | P  |
| Selenium  | 75 - 125         | 12.1366                    |   | 0.8040             | J | 13.83            | 82  |   | P  |
| Silver    | 75 - 125         | 12.6994                    |   | 1.3831             | U | 13.83            | 92  |   | P  |
| Thallium  | 75 - 125         | 14.3112                    |   | 2.0987             | J | 13.83            | 88  |   | P  |
| Vanadium  | 75 - 125         | 151.9867                   |   | 25.5871            |   | 138.31           | 91  |   | P  |
| Zinc      | 75 - 125         | 185.2556                   |   | 73.0358            |   | 138.31           | 81  |   | P  |
| Cyanide   | 75 - 125         | 6.8562                     |   | 3.4578             | U | 6.92             | 99  |   | AS |

Comments:

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## US EPA - CLP

5B-IN

## POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00Y5A

Lab Name: COMPUCHEMContract: EPW08067Lab Code: LIBRTY Case No.: 39416NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1Matrix (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte  | Control<br>Limit<br>%R | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) |   | Spike<br>Added (SA) | %R  | Q | M |
|----------|------------------------|-------------------------------|-----------------------|---|---------------------|-----|---|---|
|          |                        |                               | C                     | C |                     |     |   |   |
| Antimony |                        | 122.72                        | 14.70                 | U | 120.0               | 102 |   | P |

Comments:

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## US EPA - CLP

6-IN  
DUPLICATES

EPA SAMPLE NO.

ME00Y5D

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG ME00Y1  
 Matrix (soil/water): SOIL Level (low/med): LOW  
 % Solids for Sample: 72.3 % Solids for Duplicate: 72.3

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

| Analyte   | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD  | Q | M  |
|-----------|---------------|------------|---|---------------|---|------|---|----|
| Aluminum  |               | 8499.6450  |   | 9982.3840     |   | 16   |   | P  |
| Antimony  |               | 8.2988     | U | 8.2988        | U |      |   | P  |
| Arsenic   | 1.3831        | 4.3993     |   | 3.6761        |   | 18   |   | P  |
| Barium    | 27.6625       | 114.5730   |   | 120.0486      |   | 5    |   | P  |
| Beryllium |               | 0.6390     | J | 0.6675        | J | 4    |   | P  |
| Cadmium   |               | 0.5365     | J | 0.3477        | J | 43   |   | P  |
| Calcium   |               | 70107.2000 |   | 64319.2800    |   | 9    |   | P  |
| Chromium  |               | 15.7431    |   | 18.4390       |   | 16   |   | P  |
| Cobalt    | 6.9156        | 15.0360    |   | 14.4466       |   | 4    |   | P  |
| Copper    | 3.4578        | 16.6624    |   | 19.8787       |   | 18   |   | P  |
| Iron      |               | 13506.6700 |   | 16220.6500    |   | 18   |   | P  |
| Lead      |               | 12.2229    |   | 12.7806       |   | 4    |   | P  |
| Magnesium |               | 17346.1400 |   | 12949.6500    |   | 29 * |   | P  |
| Manganese |               | 390.3200   |   | 427.9991      |   | 9    |   | P  |
| Mercury   |               | 0.1383     | U | 0.1383        | U |      |   | CV |
| Nickel    | 5.5325        | 23.9591    |   | 23.6754       |   | 1    |   | P  |
| Potassium | 691.5629      | 1389.3820  |   | 1680.3640     |   | 19   |   | P  |
| Selenium  |               | 0.8040     | J | 0.6486        | J | 21   |   | P  |
| Silver    |               | 1.3831     | U | 1.3831        | U |      |   | P  |
| Sodium    |               | 211.3048   | J | 205.0010      | J | 3    |   | P  |
| Thallium  |               | 2.0987     | J | 2.5758        | J | 20   |   | P  |
| Vanadium  | 6.9156        | 25.5871    |   | 31.3469       |   | 20   |   | P  |
| Zinc      |               | 73.0358    |   | 66.2028       |   | 10   |   | P  |
| Cyanide   |               | 3.4578     | U | 0.9668        | J | 200  |   | AS |

## US EPA - CLP

8-IN

## ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME00Y5L

Lab Name: COMPUCHEMContract: EPW08067Lab Code: LIBRTYCase No.: 39416

NRAS No.:

SDG NO.: ME00Y1Matrix: (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte   | Initial Sample<br>Result (I) | C | Serial Dilution<br>Result (S) | C | %<br>Difference | Q | M |
|-----------|------------------------------|---|-------------------------------|---|-----------------|---|---|
| Aluminum  | 61452.43                     |   | 64597.80                      |   | 5               |   | P |
| Antimony  | 60.00                        | U | 300.00                        | U |                 |   | P |
| Arsenic   | 31.81                        |   | 32.92                         | J | 3               |   | P |
| Barium    | 828.36                       |   | 727.29                        | J | 12              | E | P |
| Beryllium | 4.62                         | J | 9.86                          | J | 113             |   | P |
| Cadmium   | 3.88                         | J | 6.01                          | J | 55              |   | P |
| Calcium   | 506875.00                    |   | 544534.00                     |   | 7               |   | P |
| Chromium  | 113.82                       |   | 113.86                        |   | 0               |   | P |
| Cobalt    | 108.71                       |   | 131.90                        | J | 21              |   | P |
| Copper    | 120.47                       |   | 110.63                        | J | 8               |   | P |
| Iron      | 97653.22                     |   | 106538.90                     |   | 9               |   | P |
| Lead      | 88.37                        |   | 101.70                        |   | 15              | E | P |
| Magnesium | 125412.60                    |   | 130695.30                     |   | 4               |   | P |
| Manganese | 2822.01                      |   | 3030.27                       |   | 7               |   | P |
| Nickel    | 173.22                       |   | 179.91                        | J | 4               |   | P |
| Potassium | 10045.23                     |   | 9452.69                       | J | 6               |   | P |
| Selenium  | 5.81                         | J | 175.00                        | U | 100             |   | P |
| Silver    | 10.00                        | U | 50.00                         | U |                 |   | P |
| Sodium    | 1527.73                      | J | 1518.52                       | J | 1               |   | P |
| Thallium  | 15.17                        | J | 125.00                        | U | 100             |   | P |
| Vanadium  | 184.99                       |   | 193.08                        | J | 4               |   | P |
| Zinc      | 528.05                       |   | 594.27                        |   | 13              | E | P |

**US EPA - CLP**  
**9-IN**  
**METHOD DETECTION LIMITS (ANNUALLY)**

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: AS Instrument ID: C2 Date: 01/15/2010

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Wave-Length<br>/Mass | CRQL | MDL  |
|---------|----------------------|------|------|
| Cyanide | 578.00               | 10   | 0.82 |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

US EPA - CLP  
9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: AS Instrument ID: C2 Date: 01/15/2010

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Wave-Length /Mass | CRQL | MDL  |
|---------|-------------------|------|------|
| Cyanide | 578.00            | 10   | 1.60 |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

US EPA - CLP  
9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: AS Instrument ID: C2 Date: 01/15/2010

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Wave-Length /Mass | CRQL | MDL   |
|---------|-------------------|------|-------|
| Cyanide | 578.00            | 2.50 | 0.160 |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**US EPA - CLP**  
**9-IN**  
**METHOD DETECTION LIMITS (ANNUALLY)**

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS. No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: P Instrument ID: P4 Date: 01/15/2010

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

| Analyte   | Wave-Length /Mass | CRL  | MDL  |
|-----------|-------------------|------|------|
| Aluminum  | 308.22            | 200  | 25.6 |
| Antimony  | 206.84            | 60   | 2.8  |
| Arsenic   | 189.04            | 10   | 1.7  |
| Barium    | 493.41            | 200  | 0.18 |
| Beryllium | 313.04            | 5    | 0.55 |
| Cadmium   | 226.50            | 5    | 0.65 |
| Calcium   | 317.93            | 5000 | 27.4 |
| Chromium  | 267.72            | 10   | 0.66 |
| Cobalt    | 228.62            | 50   | 1.20 |
| Copper    | 324.75            | 25   | 0.43 |
| Iron      | 271.44            | 100  | 10.8 |
| Lead      | 220.35            | 10   | 2.1  |
| Magnesium | 279.08            | 5000 | 24.2 |
| Manganese | 257.61            | 15   | 0.31 |
| Nickel    | 231.60            | 40   | 0.83 |
| Potassium | 766.49            | 5000 | 18.7 |
| Selenium  | 196.02            | 35   | 1.8  |
| Silver    | 328.07            | 10   | 0.58 |
| Sodium    | 330.23            | 5000 | 90   |
| Thallium  | 190.86            | 25   | 3.4  |
| Vanadium  | 292.40            | 50   | 0.50 |
| Zinc      | 206.20            | 60   | 2.00 |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
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US EPA - CLP  
9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: P Instrument ID: P4 Date: 01/15/2010

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

| Analyte   | Wave-Length /Mass | CRQL   | MDL   |
|-----------|-------------------|--------|-------|
| Aluminum  | 308.22            | 20.00  | 5.1   |
| Antimony  | 206.84            | 6.00   | 0.64  |
| Arsenic   | 189.04            | 1.00   | 0.22  |
| Barium    | 493.41            | 20.00  | 0.099 |
| Beryllium | 313.04            | 0.50   | 0.110 |
| Cadmium   | 226.50            | 0.50   | 0.068 |
| Calcium   | 317.93            | 500.00 | 3.5   |
| Chromium  | 267.72            | 1.00   | 0.051 |
| Cobalt    | 228.62            | 5.00   | 0.360 |
| Copper    | 324.75            | 2.50   | 0.052 |
| Iron      | 271.44            | 10.00  | 3.7   |
| Lead      | 220.35            | 1.00   | 0.079 |
| Magnesium | 279.08            | 500.00 | 1.1   |
| Manganese | 257.61            | 1.50   | 0.160 |
| Nickel    | 231.60            | 4.00   | 0.590 |
| Potassium | 766.49            | 500.00 | 1.7   |
| Selenium  | 196.02            | 3.50   | 0.38  |
| Silver    | 328.07            | 1.00   | 0.048 |
| Sodium    | 330.23            | 500.00 | 16.7  |
| Thallium  | 190.86            | 2.50   | 0.35  |
| Vanadium  | 292.40            | 5.00   | 0.076 |
| Zinc      | 206.20            | 6.00   | 0.084 |

Comments: \_\_\_\_\_

**US EPA - CLP**  
**9-IN**  
**METHOD DETECTION LIMITS (ANNUALLY)**

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: P Instrument ID: P4 Date: 01/15/2010

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): UG/L

| Analyte   | Wave-Length<br>/Mass | CRQL | MDL   |
|-----------|----------------------|------|-------|
| Aluminum  | 308.22               | 200  | 42.1  |
| Antimony  | 206.84               | 60   | 14.7  |
| Arsenic   | 189.04               | 10   | 2.0   |
| Barium    | 493.41               | 200  | 0.85  |
| Beryllium | 313.04               | 5    | 0.86  |
| Cadmium   | 226.50               | 5    | 1.10  |
| Calcium   | 317.93               | 5000 | 134.0 |
| Chromium  | 267.72               | 10   | 0.68  |
| Cobalt    | 228.62               | 50   | 6.70  |
| Copper    | 324.75               | 25   | 4.50  |
| Iron      | 271.44               | 100  | 24.1  |
| Lead      | 220.35               | 10   | 1.5   |
| Magnesium | 279.08               | 5000 | 16.6  |
| Manganese | 257.61               | 15   | 1.30  |
| Nickel    | 231.60               | 40   | 5.90  |
| Potassium | 766.49               | 5000 | 21.5  |
| Selenium  | 196.02               | 35   | 2.3   |
| Silver    | 328.07               | 10   | 0.68  |
| Sodium    | 330.23               | 5000 | 271   |
| Thallium  | 190.86               | 25   | 3.9   |
| Vanadium  | 292.40               | 50   | 0.43  |
| Zinc      | 206.20               | 60   | 1.70  |

Comments: \_\_\_\_\_

US EPA - CLP  
9-IN  
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: CV Instrument ID: V4 Date: 01/15/2010

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Wave-Length /Mass | CRQL | MDL   |
|---------|-------------------|------|-------|
| Mercury | 253.70            | 0.2  | 0.065 |

Comments: \_\_\_\_\_  
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\_\_\_\_\_

**US EPA - CLP**  
**9-IN**  
**METHOD DETECTION LIMITS (ANNUALLY)**

Lab Name: COMPUCHEM Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: ME00Y1

Instrument Type: CV Instrument ID: V4 Date: 01/15/2010

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Wave-Length<br>/Mass | CRQL | MDL   |
|---------|----------------------|------|-------|
| Mercury | 253.70               | 0.1  | 0.042 |

Comments: \_\_\_\_\_  
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\_\_\_\_\_

## US EPA - CLP

12-IN

## PREPARATION LOG

Lab Name: COMPUCHEMContract: EPW08067Lab Code: LIBERTYCase No.: 39416

NRAS No.: \_\_\_\_\_

SDG NO.: ME00Y1Preparation Method: HS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| LCSS           | 01/28/2010       | 1.00          | 100         |
| ME00Y1         | 01/28/2010       | 1.01          | 100         |
| ME00Y2         | 01/28/2010       | 1.01          | 100         |
| ME00Y3         | 01/28/2010       | 1.05          | 100         |
| ME00Y4         | 01/28/2010       | 1.02          | 100         |
| ME00Y5         | 01/28/2010       | 1.00          | 100         |
| ME00Y5D        | 01/28/2010       | 1.00          | 100         |
| ME00Y5S        | 01/28/2010       | 1.00          | 100         |
| PBS            | 01/28/2010       | 1.00          | 100         |

Comments: \_\_\_\_\_

\_\_\_\_\_

**US EPA - CLP**  
**12-IN**  
**PREPARATION LOG**

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG NO.: MEOOY1  
 Preparation Method: CS1

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------|------------------|---------------|-------------|
| CCB            | 01/28/2010       |               | 100         |
| CCB            | 01/28/2010       |               | 100         |
| CCB            | 01/28/2010       |               | 100         |
| CCV            | 01/28/2010       |               | 100         |
| CCV            | 01/28/2010       |               | 100         |
| CCV            | 01/28/2010       |               | 100         |
| CRI            | 01/28/2010       |               | 100         |
| CRI            | 01/28/2010       |               | 100         |
| JCB            | 01/28/2010       |               | 100         |
| KCV            | 01/28/2010       |               | 100         |
| LCSS           | 01/28/2010       | 0.20          | 100         |
| MEOOY1         | 01/28/2010       | 0.20          | 100         |
| MEOOY2         | 01/28/2010       | 0.19          | 100         |
| MEOOY3         | 01/28/2010       | 0.21          | 100         |
| MEOOY4         | 01/28/2010       | 0.21          | 100         |
| MEOOY5         | 01/28/2010       | 0.20          | 100         |
| MEOOY5D        | 01/28/2010       | 0.20          | 100         |
| MEOOY5S        | 01/28/2010       | 0.20          | 100         |
| PBS            | 01/28/2010       | 0.20          | 100         |
| S0             | 01/28/2010       |               | 100         |
| S0.2           | 01/28/2010       |               | 100         |
| S0.5           | 01/28/2010       |               | 100         |
| S1             | 01/28/2010       |               | 100         |
| S10            | 01/28/2010       |               | 100         |
| S5             | 01/28/2010       |               | 100         |

Comments: \_\_\_\_\_

**US EPA - CLP**  
**12-IN**  
**PREPARATION LOG**

Lab Name: COMPUCHEM

Contract: EPW08067

Lab Code: LIBRTY Case No.: 39416

NRAS No.: \_\_\_\_\_

SDG NO.: ME00Y1

Preparation Method: DS2

| EPA Sample No. | Preparation Date | Weight (gram) | Volume(mL) |
|----------------|------------------|---------------|------------|
| ICV            | 01/28/2010       |               | 50         |
| LCSS           | 01/28/2010       | 1.00          | 50         |
| ME00Y1         | 01/28/2010       | 1.04          | 50         |
| ME00Y2         | 01/28/2010       | 1.01          | 50         |
| ME00Y3         | 01/28/2010       | 1.05          | 50         |
| ME00Y4         | 01/28/2010       | 1.02          | 50         |
| ME00Y5         | 01/28/2010       | 1.00          | 50         |
| ME00Y5D        | 01/28/2010       | 1.00          | 50         |
| ME00Y5S        | 01/28/2010       | 1.00          | 50         |
| MIDRANGE       | 01/28/2010       |               | 50         |
| PBS            | 01/28/2010       | 1.00          | 50         |

Comments: \_\_\_\_\_

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## US EPA - CLP

13-IN

## ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1  
 Instrument ID: C2 Analysis Method: AS  
 Start Date: 02/01/2010 End Date: 02/01/2010

| EPA<br>Sample<br>NO. | D/F | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |     |      | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | F<br>U | F<br>E | M<br>B | M<br>G | H<br>E | N<br>G | K<br>I | S<br>N | A<br>E | N<br>G | T<br>A | V<br>G |
| S200                 | 1.0 | 1656 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S100                 | 1.0 | 1657 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S50                  | 1.0 | 1658 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S20                  | 1.0 | 1658 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S10                  | 1.0 | 1659 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| S0                   | 1.0 | 1700 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ICV                  | 1.0 | 1702 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ICB                  | 1.0 | 1702 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CRI                  | 1.0 | 1703 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCV                  | 1.0 | 1704 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCB                  | 1.0 | 1705 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| MIDRANGE             | 1.0 | 1707 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| PBS                  | 1.0 | 1707 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| LCSS                 | 1.0 | 1708 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y1               | 1.0 | 1709 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y2               | 1.0 | 1710 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y3               | 1.0 | 1710 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y4               | 1.0 | 1711 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y5               | 1.0 | 1712 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y5D              | 1.0 | 1713 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ME00Y5S              | 1.0 | 1713 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCV                  | 1.0 | 1714 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCB                  | 1.0 | 1715 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| ZZZZZZ               | 1.0 | 1717 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1717 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1718 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1719 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1719 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1720 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1721 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1722 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1723 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CRI                  | 1.0 | 1723 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCV                  | 1.0 | 1724 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |
| CCB                  | 1.0 | 1725 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |

## US EPA - CLP

13-IN

## ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1  
 Instrument ID: P4 Analysis Method: P  
 Start Date: 02/09/2010 End Date: 02/09/2010

| EPA<br>Sample<br>NO. | D/F | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|----------------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                      |     |      | A<br>L   | S<br>B | A<br>S | B<br>A | C<br>R | C<br>O | C<br>U | C<br>E | F<br>B | P<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>G | V<br>A | Z<br>N | C<br>N |  |
| SO                   | 1.0 | 0824 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| S                    | 1.0 | 0831 |          |        |        |        | X      | X      | X      | X      |        |        |        |        | X      |        | X      | X      | X      | X      | X      | X      | X      |  |
| S                    | 1.0 | 0837 | X        |        |        |        |        | X      |        |        |        |        |        |        | X      |        | X      | X      |        | X      |        |        |        |  |
| S                    | 1.0 | 0842 |          |        | X      | X      | X      |        |        | X      | X      | X      |        |        |        |        |        |        |        |        |        |        | X      |  |
| S                    | 1.0 | 0848 | X        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ICV                  | 1.0 | 0853 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ICB                  | 1.0 | 0900 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CRI                  | 1.0 | 0907 | X        | X      |        | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ICSA                 | 1.0 | 0913 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ICSAB                | 1.0 | 0920 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CCV                  | 1.0 | 0926 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CCB                  | 1.0 | 0933 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ZZZZZ                | 1.0 | 0943 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 0949 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 0956 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1003 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1009 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1016 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1023 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1029 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1036 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ZZZZZ                | 1.0 | 1042 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| CCV                  | 1.0 | 1049 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CCB                  | 1.0 | 1056 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ZZZZZ                | 1.0 | 1102 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| PBS                  | 1.0 | 1109 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| LCSS                 | 1.0 | 1116 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ME00Y5               | 1.0 | 1122 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ME00Y5D              | 1.0 | 1129 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ME00Y5S              | 1.0 | 1136 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ME00Y5L              | 5.0 | 1142 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CRI                  | 1.0 | 1149 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ICSA                 | 1.0 | 1156 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| ICSAB                | 1.0 | 1202 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |
| CCV                  | 1.0 | 1209 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |  |

## US EPA - CLP

13-IN

## ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1  
 Instrument ID: P4 Analysis Method: P  
 Start Date: 02/09/2010 End Date: 02/09/2010

| EPA<br>Sample<br>NO. | D/F | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |     |      | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | F<br>U | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>G | T<br>A | V<br>L |
| CC3                  | 1.0 | 1215 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |

## US EPA - CLP

13-IN

## ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBERTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1  
 Instrument ID: P4 Analysis Method: P  
 Start Date: 02/11/2010 End Date: 02/11/2010

| EPA<br>Sample<br>NO. | D/F | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |     |      | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>G | Z<br>N |
| s0                   | 1.0 | 1007 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| s                    | 1.0 | 1013 |          |        |        |        |        | X      | X      | X      | X      | X      |        |        |        |        | X      | X      | X      | X      | X      | X      | X      | X      |        |
| s                    | 1.0 | 1020 | X        |        |        |        |        |        | X      |        |        |        |        |        | X      |        | X      | X      |        |        |        |        |        |        |        |
| s                    | 1.0 | 1025 |          |        | X      | X      | X      |        |        |        | X      | X      | X      |        |        |        |        |        |        |        |        |        |        | X      |        |
| s                    | 1.0 | 1031 | X        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ICV                  | 1.0 | 1036 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICB                  | 1.0 | 1043 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CRI                  | 1.0 | 1049 | X        | X      |        | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSA                 | 1.0 | 1056 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSAB                | 1.0 | 1103 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCV                  | 1.0 | 1109 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCB                  | 1.0 | 1116 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZ                | 1.0 | 1133 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ME00Y5A              | 1.0 | 1139 | X        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ME00Y1               | 1.0 | 1146 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME00Y2               | 1.0 | 1153 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME00Y3               | 1.0 | 1159 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ME00Y4               | 1.0 | 1206 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CRI                  | 1.0 | 1213 | X        | X      |        | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSA                 | 1.0 | 1219 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| ICSAB                | 1.0 | 1226 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCV                  | 1.0 | 1232 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |
| CCB                  | 1.0 | 1239 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |

## US EPA - CLP

13-IN

## ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: EPW08067  
 Lab Code: LIBRTY Case No.: 39416 NRAS No.: \_\_\_\_\_ SDG No.: ME00Y1  
 Instrument ID: V4 Analysis Method: CV  
 Start Date: 01/29/2010 End Date: 01/29/2010

| EPA<br>Sample<br>No. | D/F | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |     |      | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>A | N<br>E | T<br>G | V<br>A | Z<br>L | C<br>N |
| .30                  | 1.0 | 1601 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| S0.2                 | 1.0 | 1604 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| S0.5                 | 1.0 | 1606 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| S1                   | 1.0 | 1608 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| S5                   | 1.0 | 1610 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| S10                  | 1.0 | 1612 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ICV                  | 1.0 | 1614 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ICE                  | 1.0 | 1616 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CRI                  | 1.0 | 1618 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CCV                  | 1.0 | 1620 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CCB                  | 1.0 | 1622 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| PBS                  | 1.0 | 1624 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| LCSS                 | 1.0 | 1626 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y5               | 1.0 | 1628 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y5D              | 1.0 | 1631 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y5S              | 1.0 | 1633 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y1               | 1.0 | 1635 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y2               | 1.0 | 1637 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y3               | 1.0 | 1639 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ME00Y4               | 1.0 | 1641 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1643 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV                  | 1.0 | 1645 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CCB                  | 1.0 | 1647 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1649 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1651 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1653 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1655 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1657 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1659 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1701 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.0 | 1703 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CRI                  | 1.0 | 1705 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CCV                  | 1.0 | 1707 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |
| CCB                  | 1.0 | 1709 |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |

